

FIGURE 1

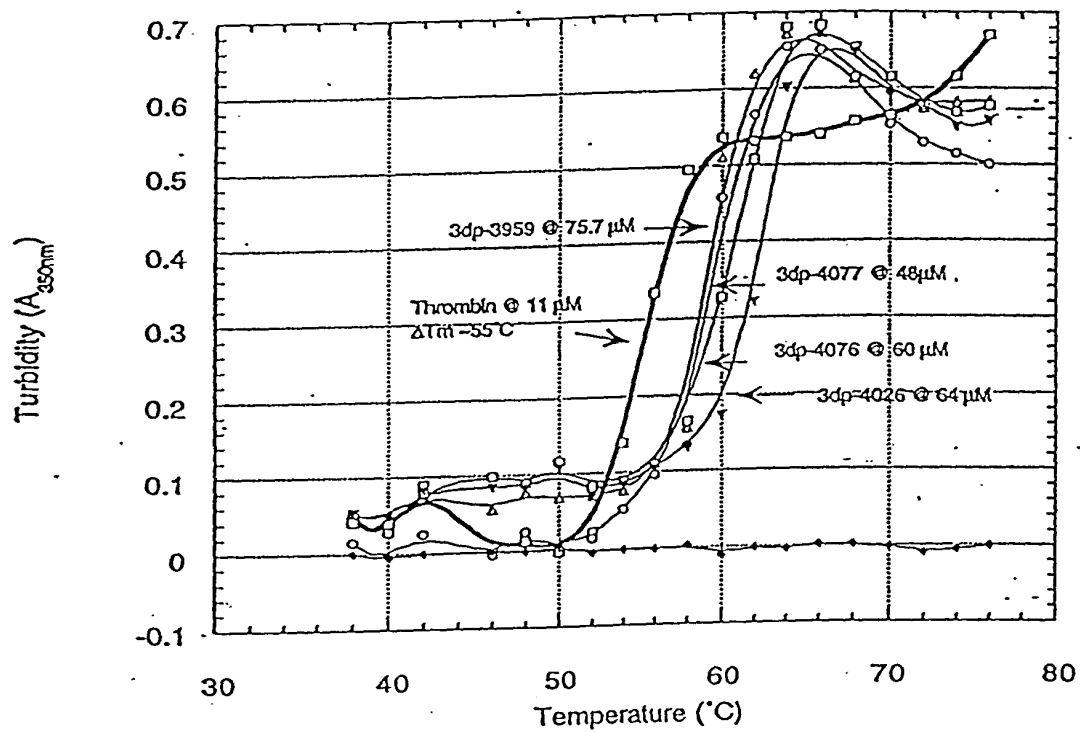


FIGURE 2

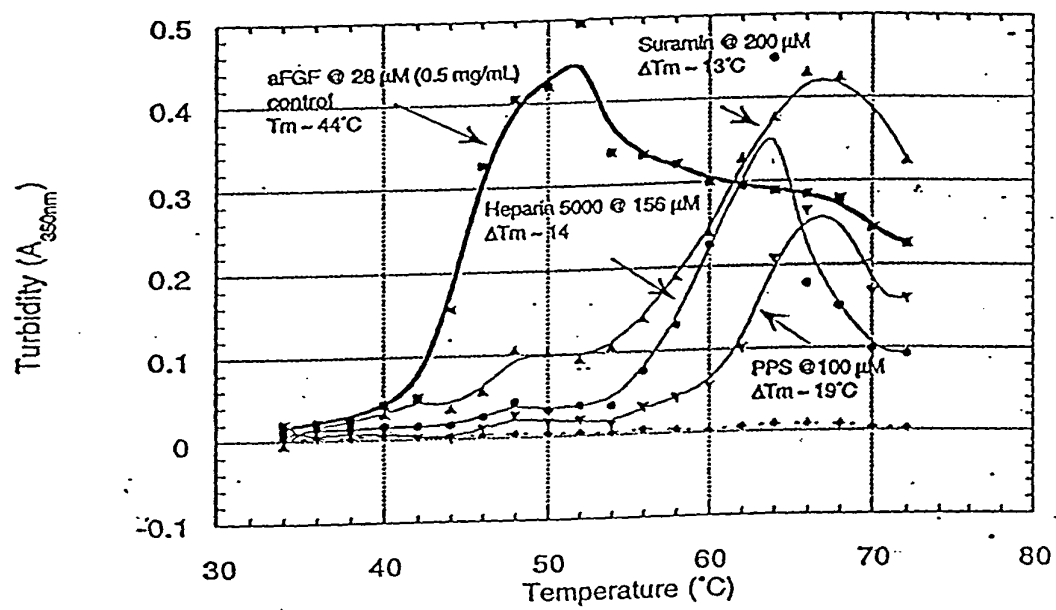


FIGURE 3

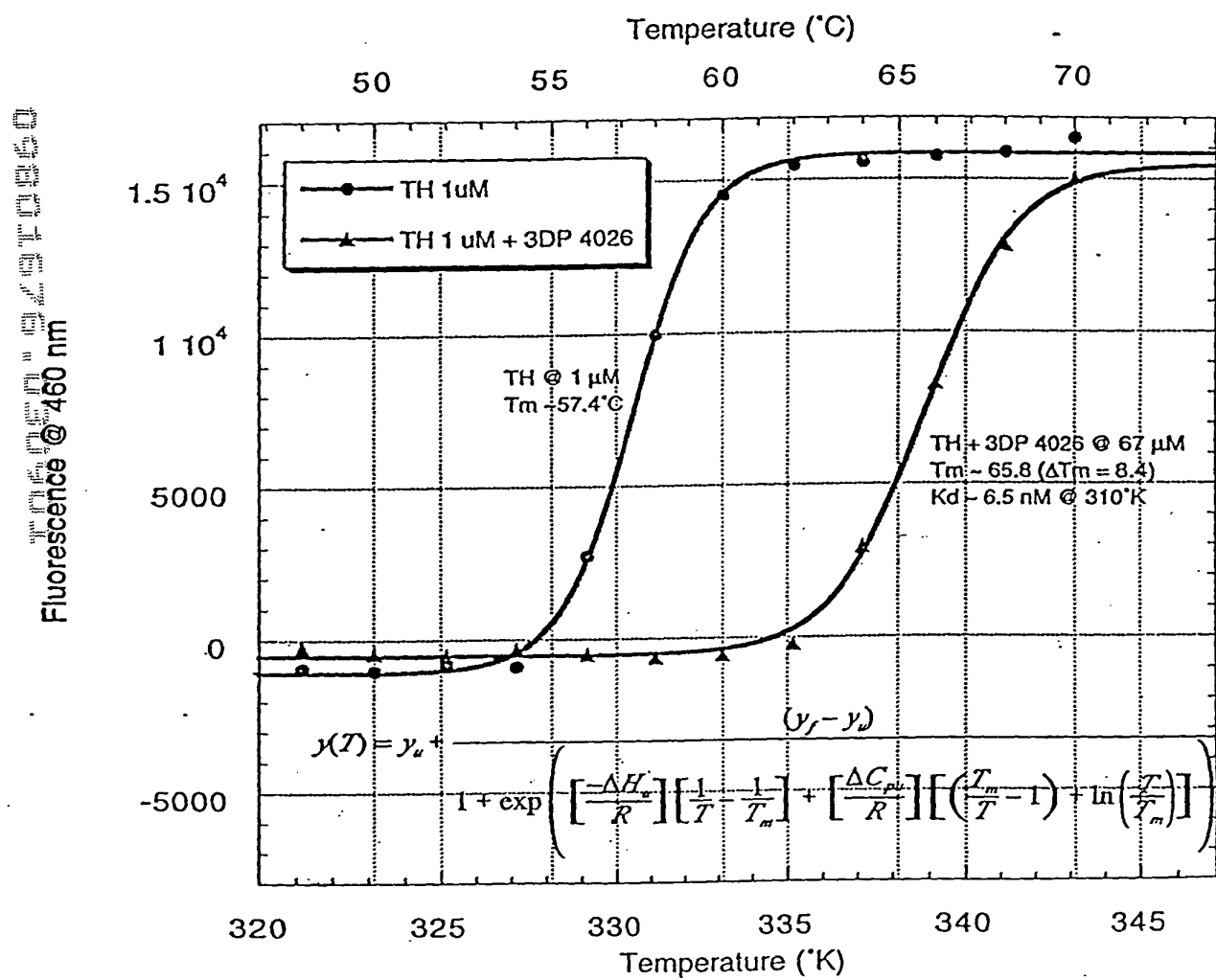
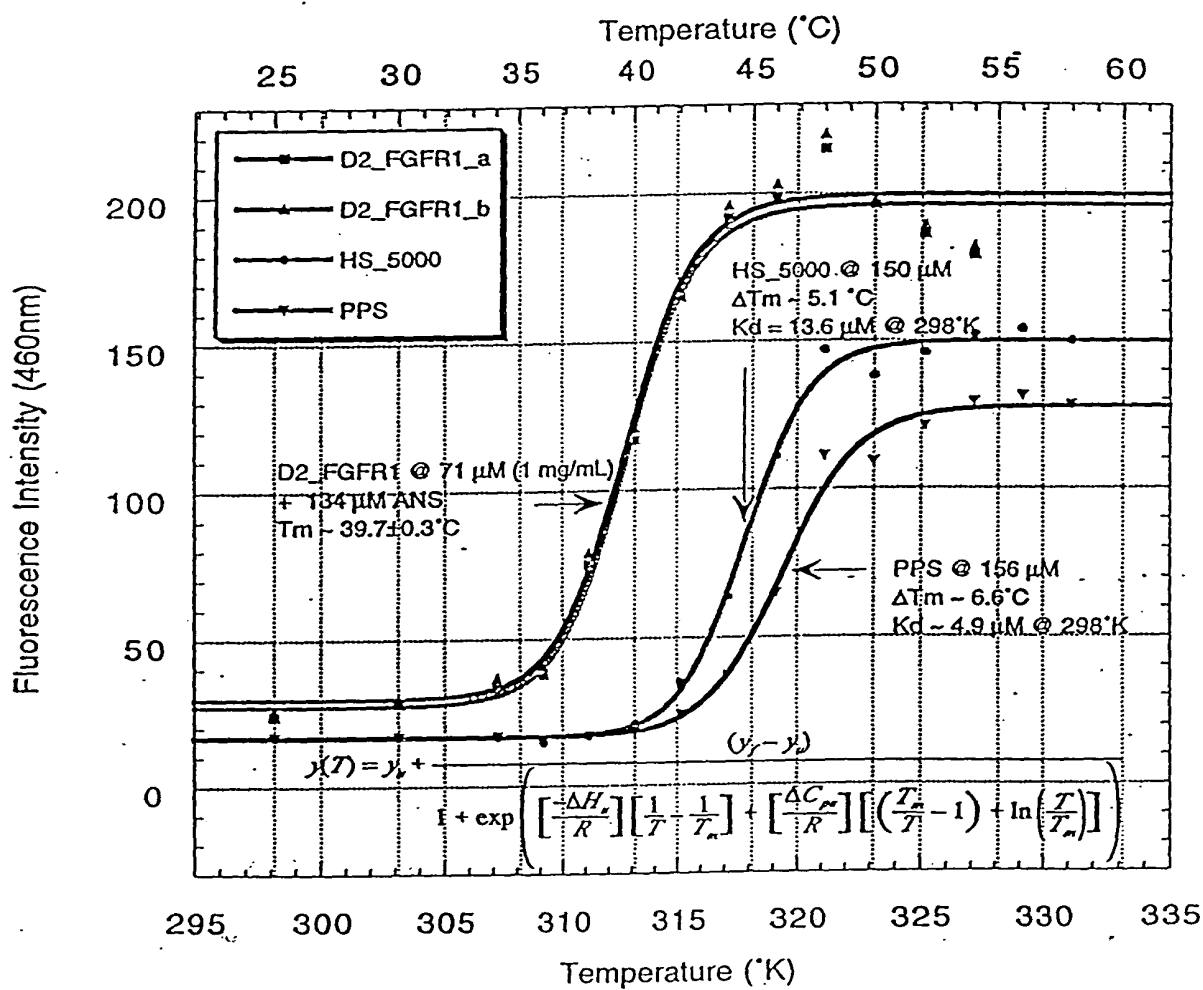


FIGURE 4



# FIGURE 5

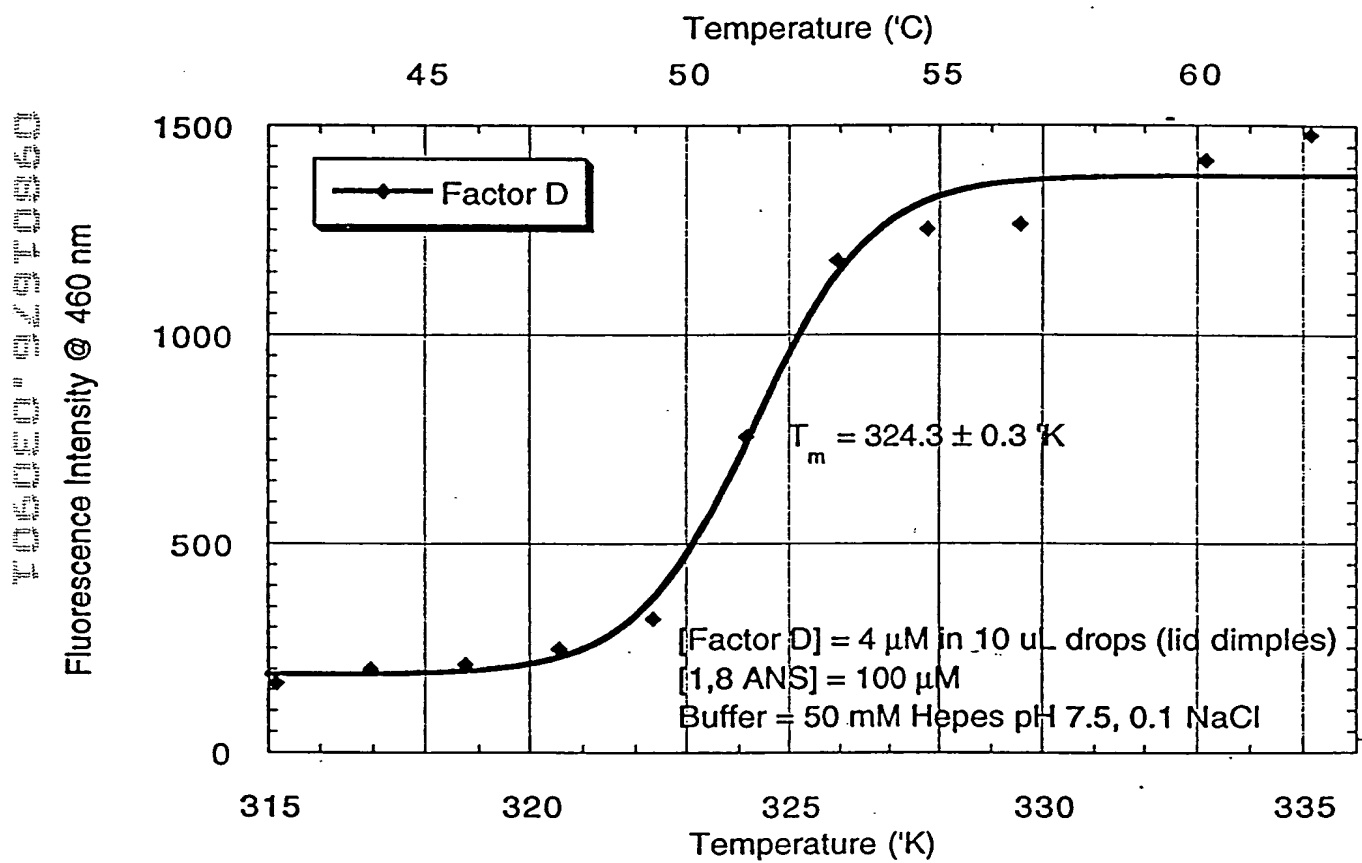


FIGURE 6

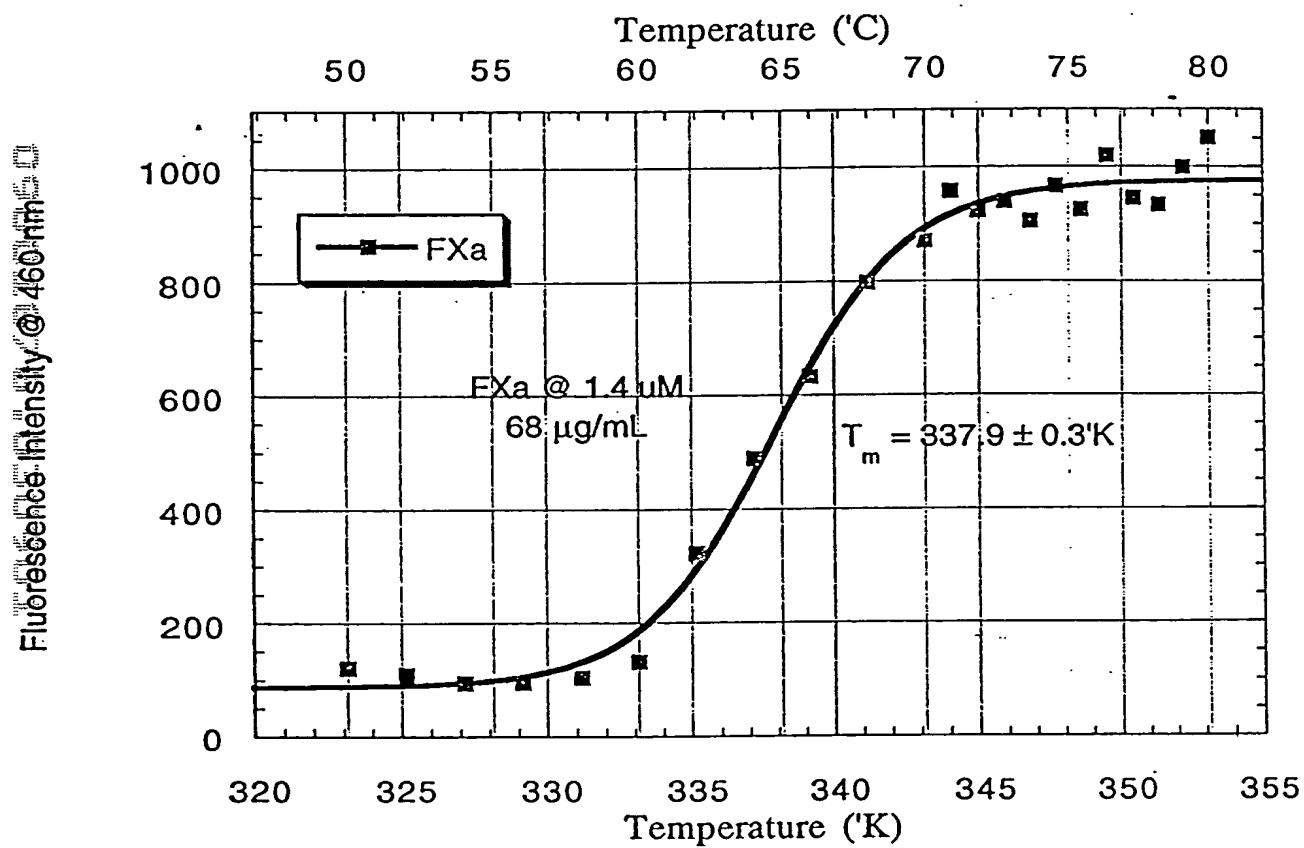
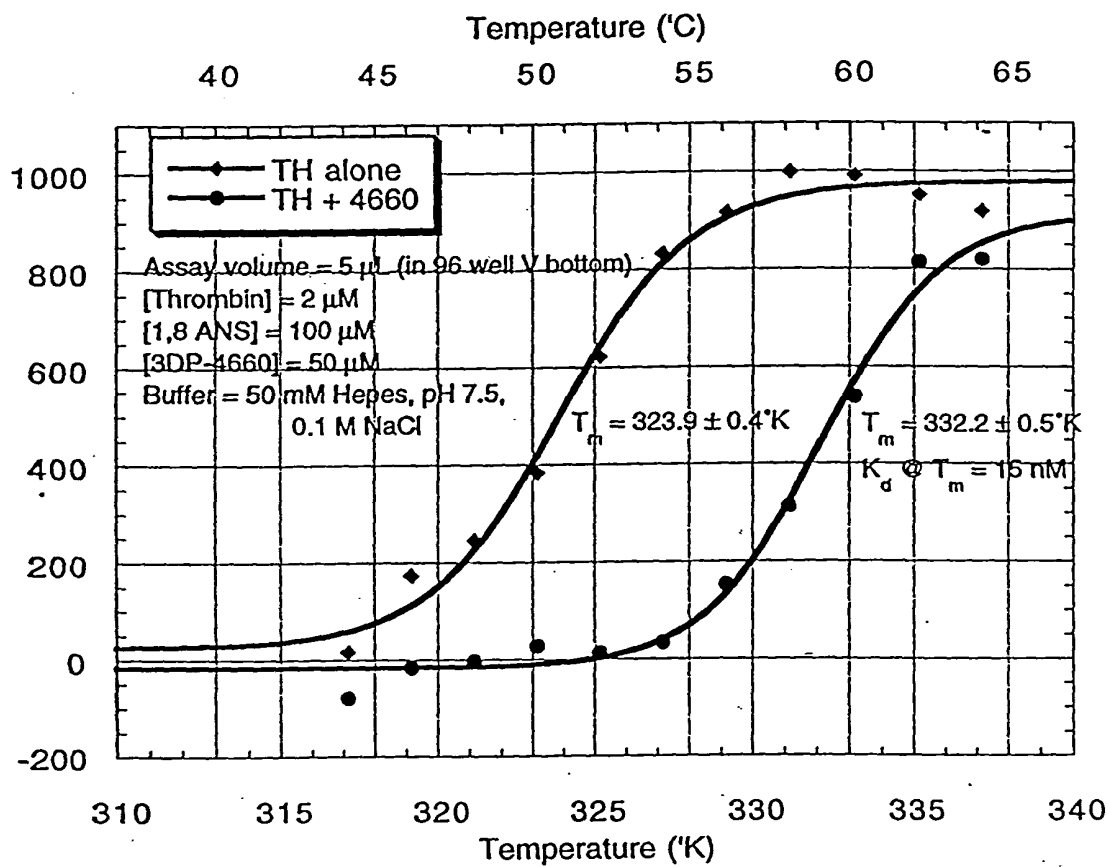


FIGURE 7

Fluorescence Intensity @ 460 nm



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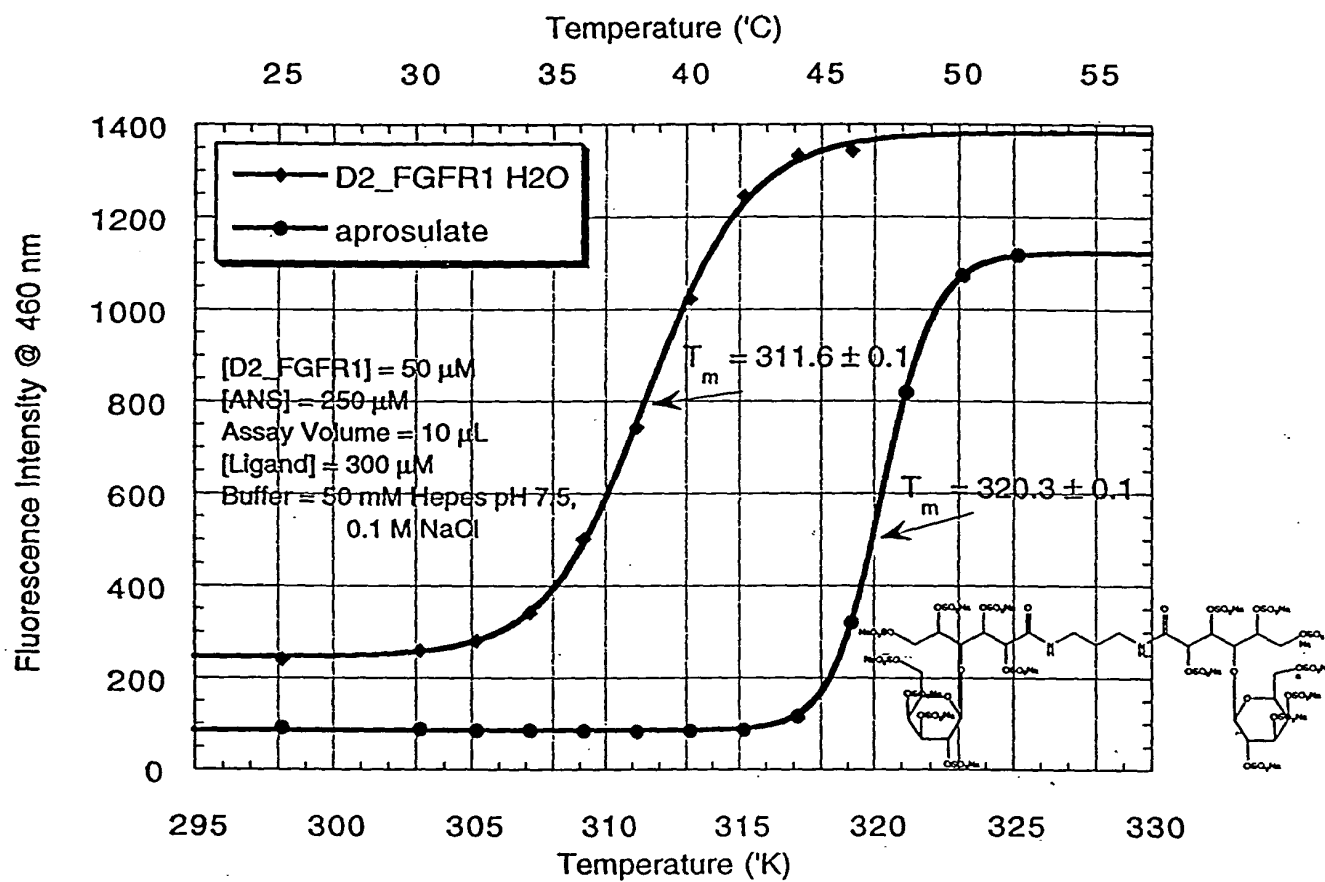




FIGURE 9

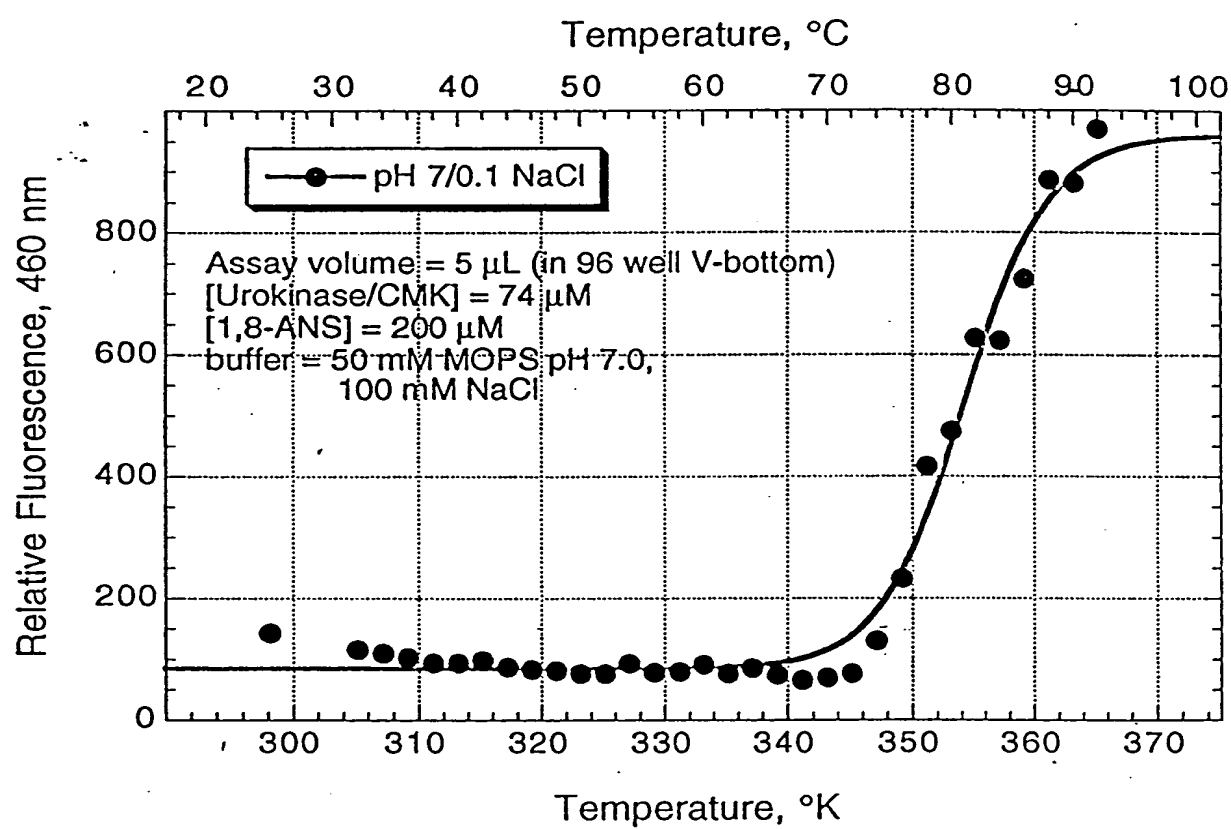
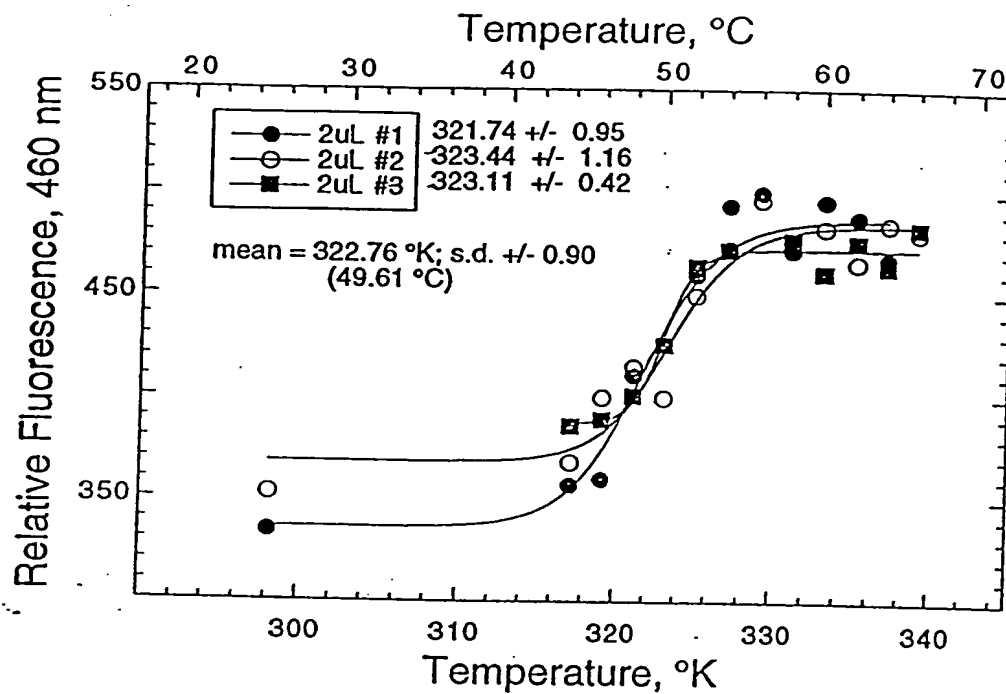


FIGURE 10



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FIGURE 11

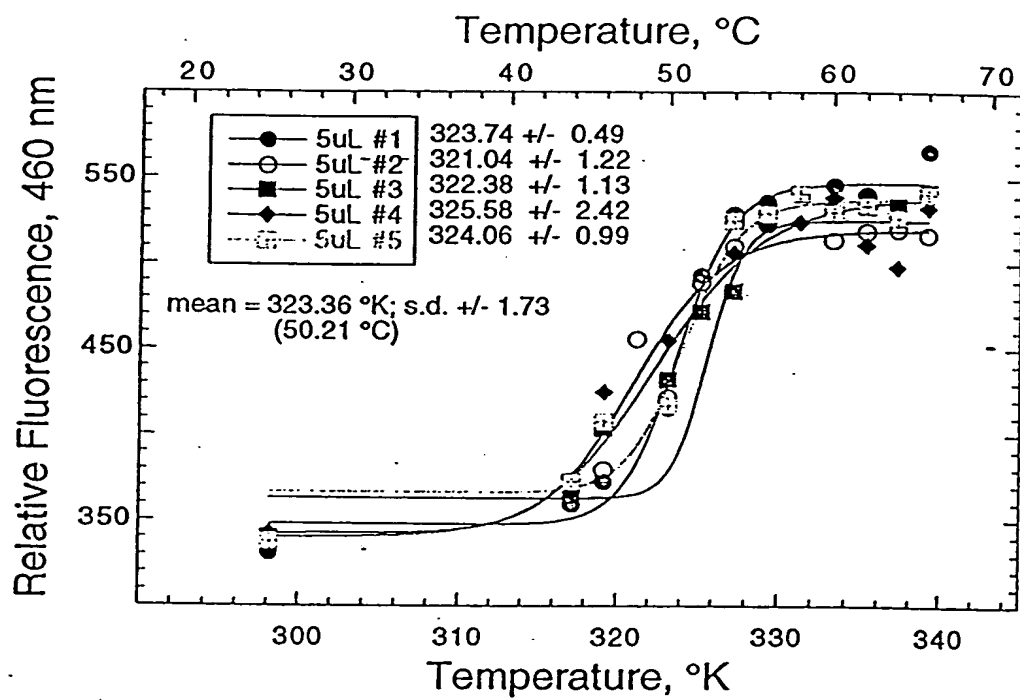


FIGURE 12

Fluorescence @ 55°C (328.15°K)  
(360 nm ex./460 nm em.)

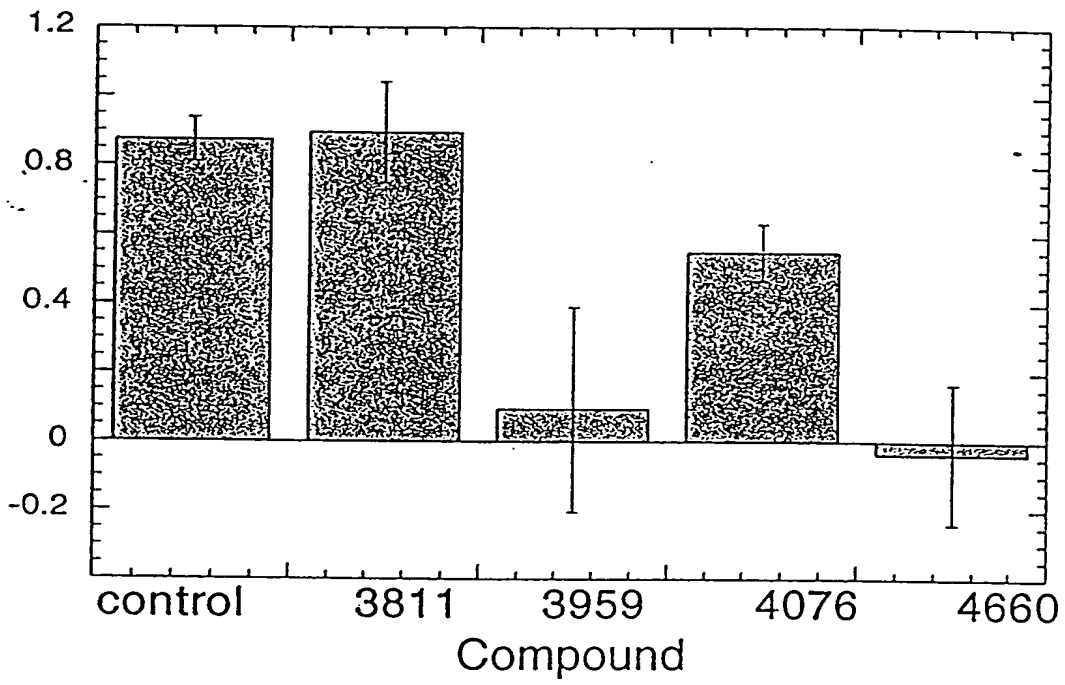


FIGURE 1-3

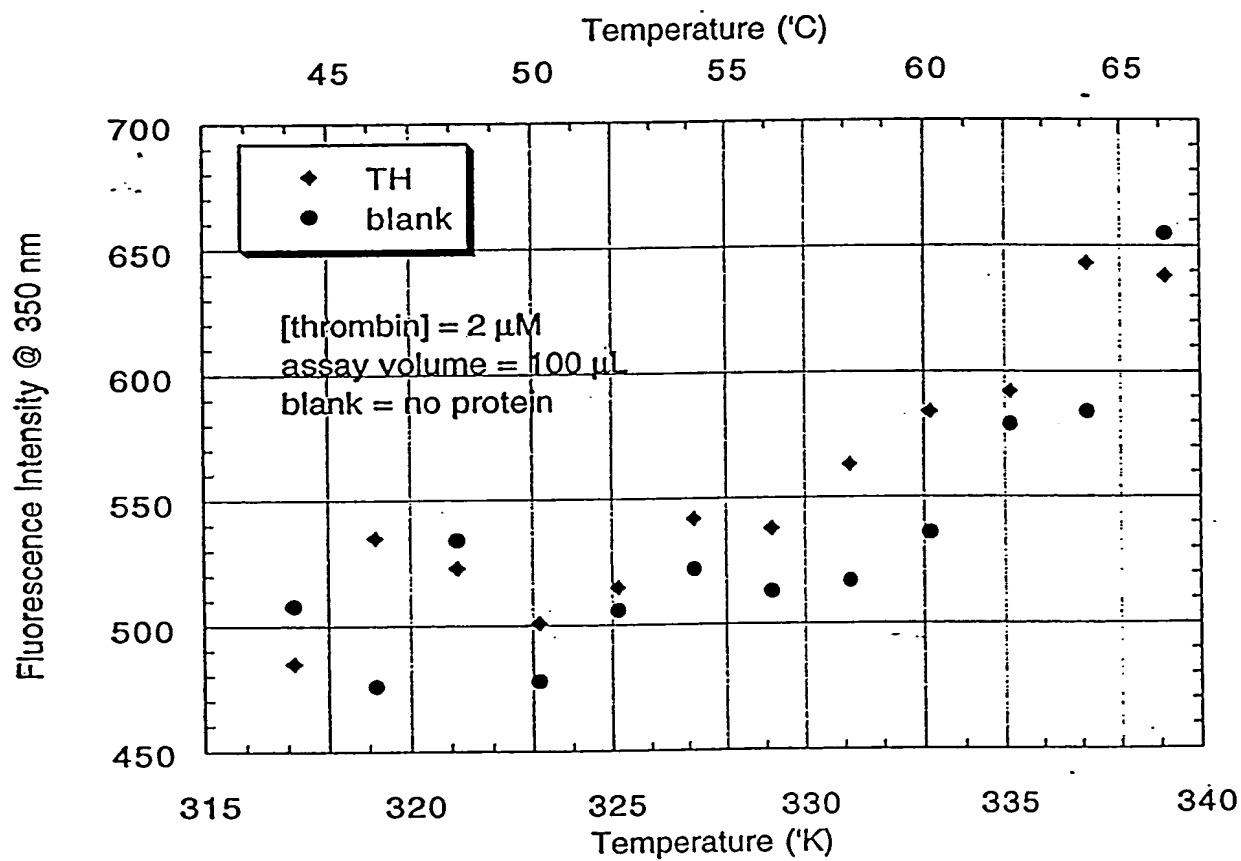


FIGURE 14

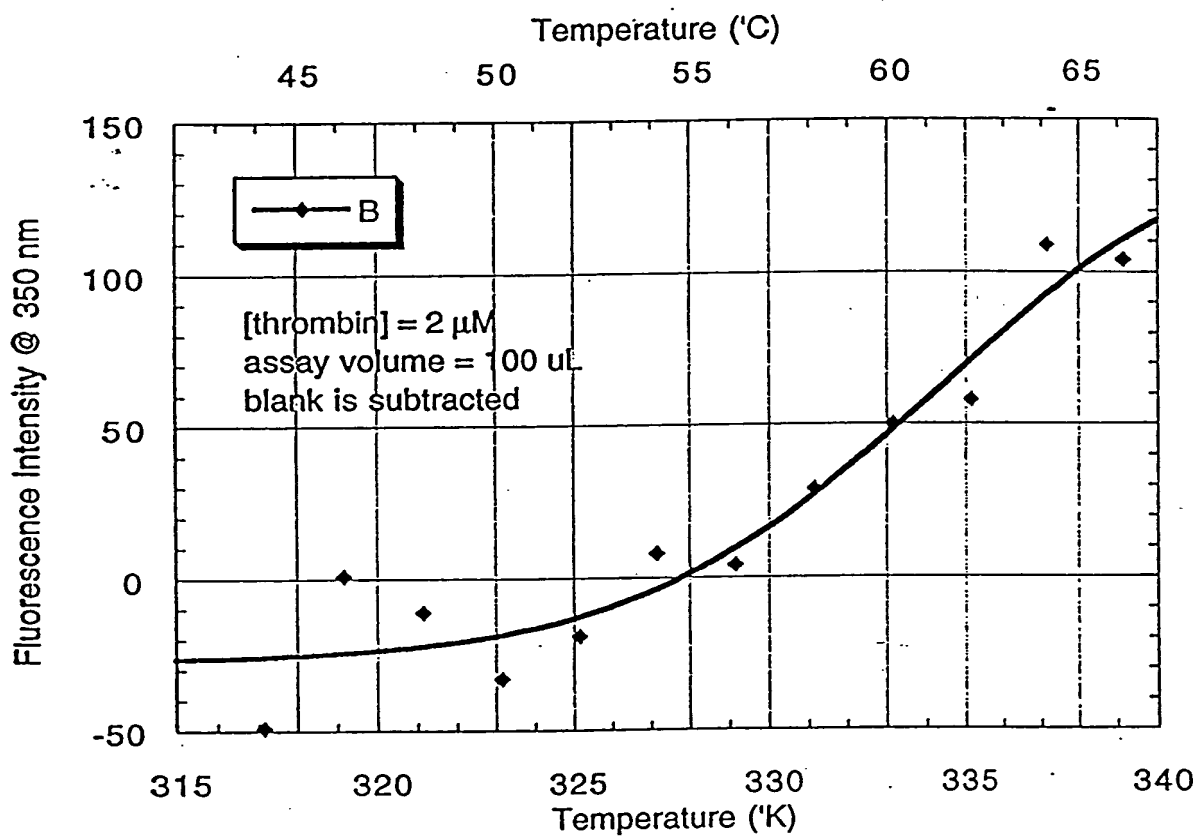


FIGURE 15

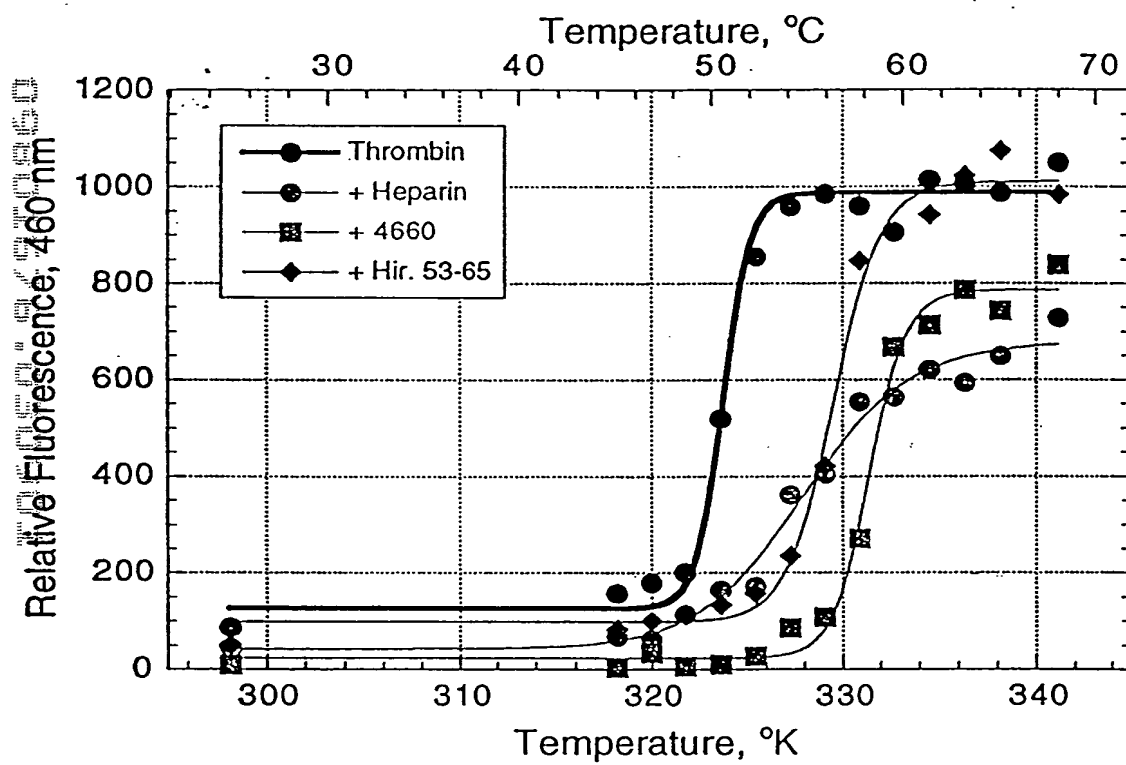


FIGURE 16

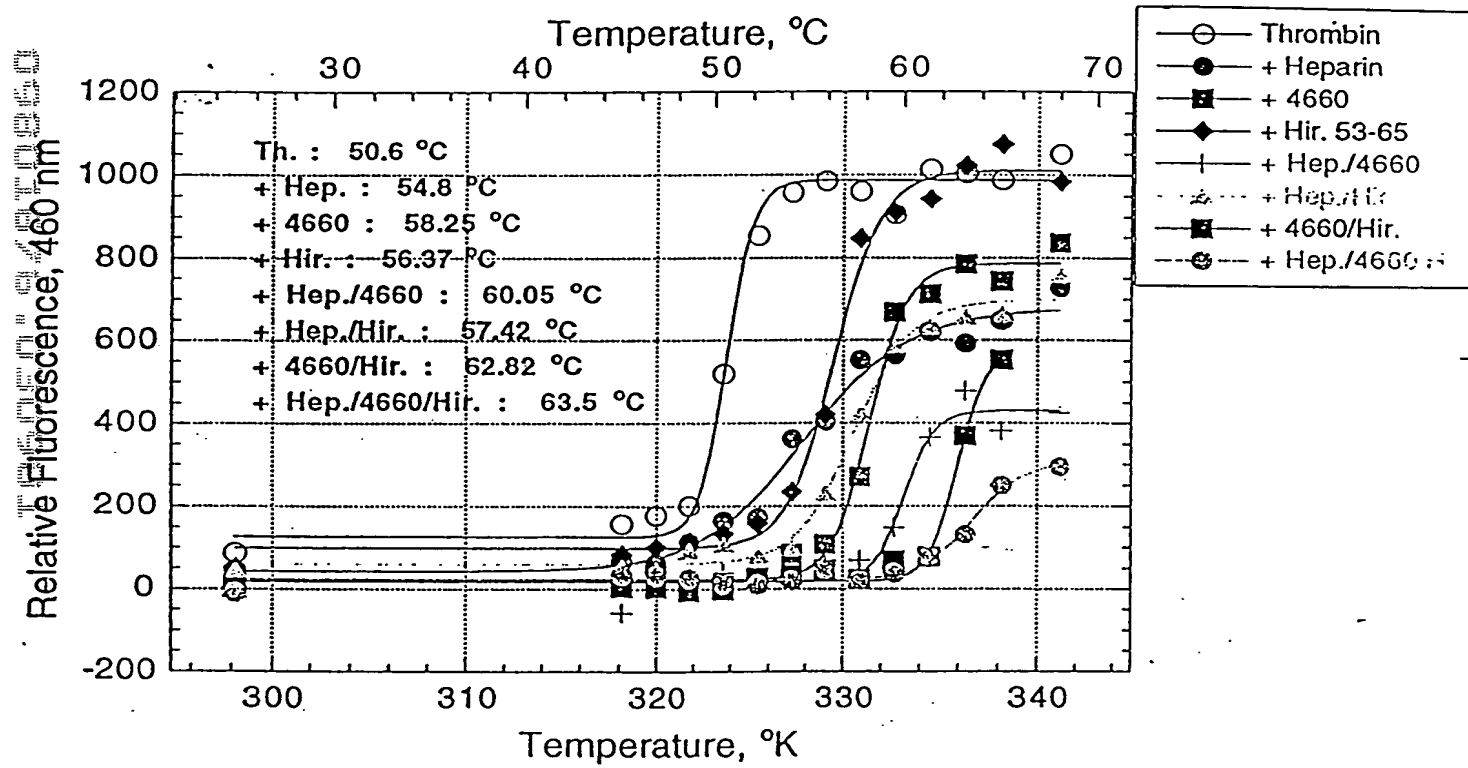




FIG. 17A

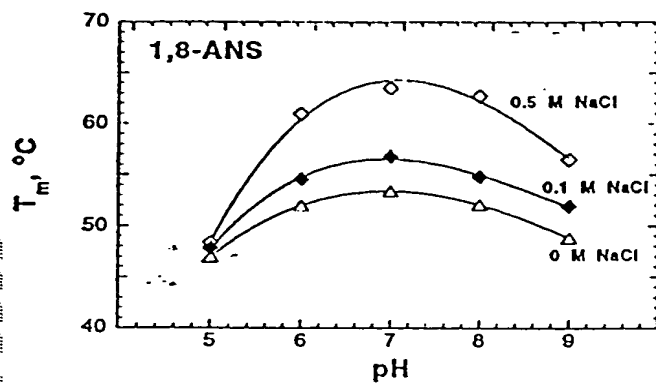


FIG. 17B

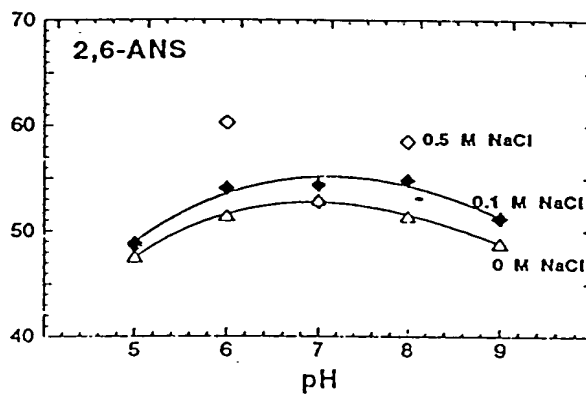


FIG. 17C

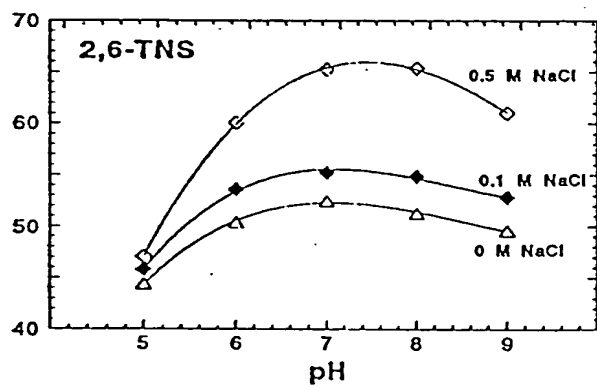


FIG. 17D

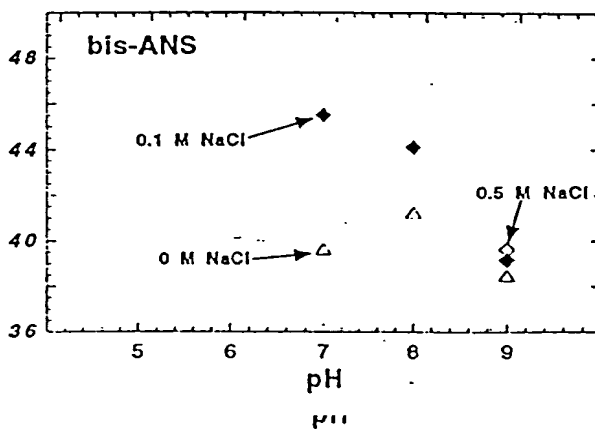


FIGURE 18

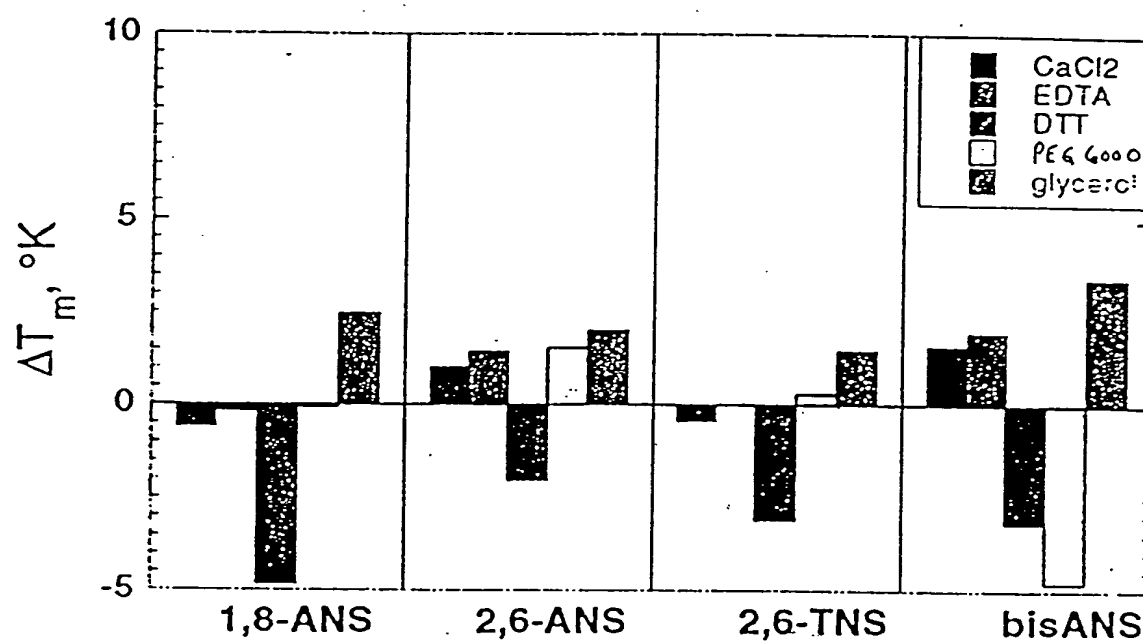


FIGURE 19

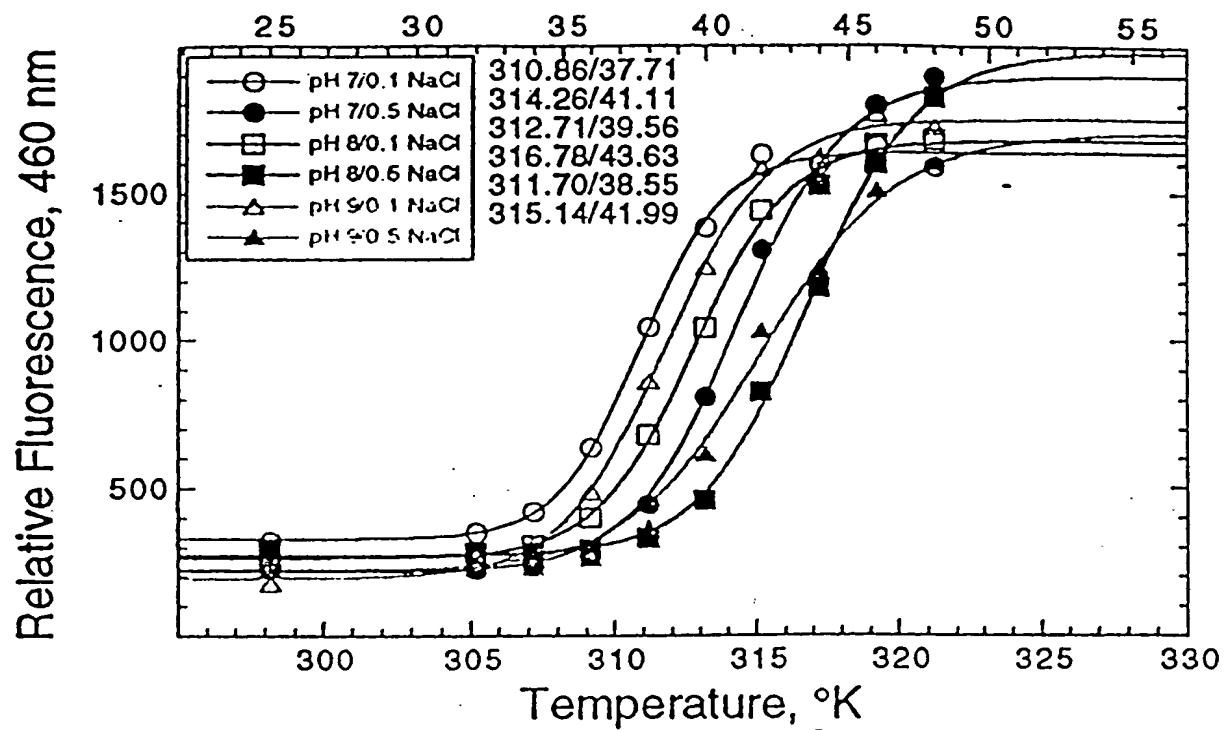


FIGURE 20

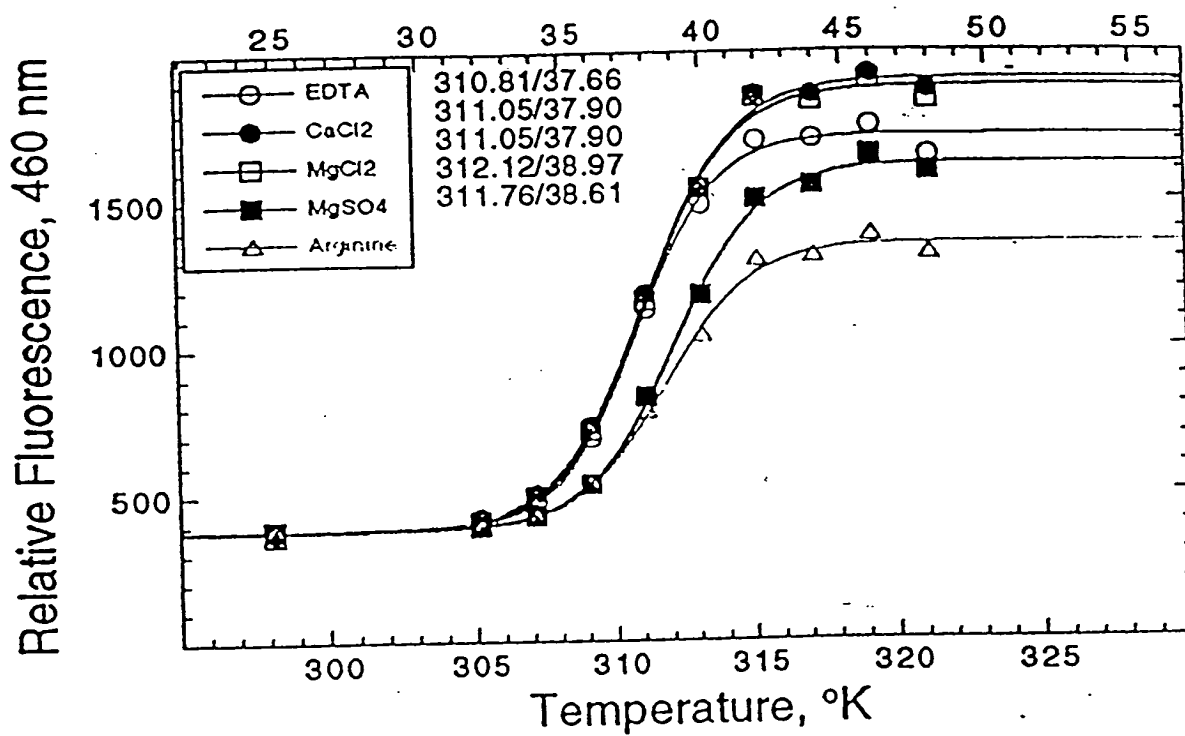
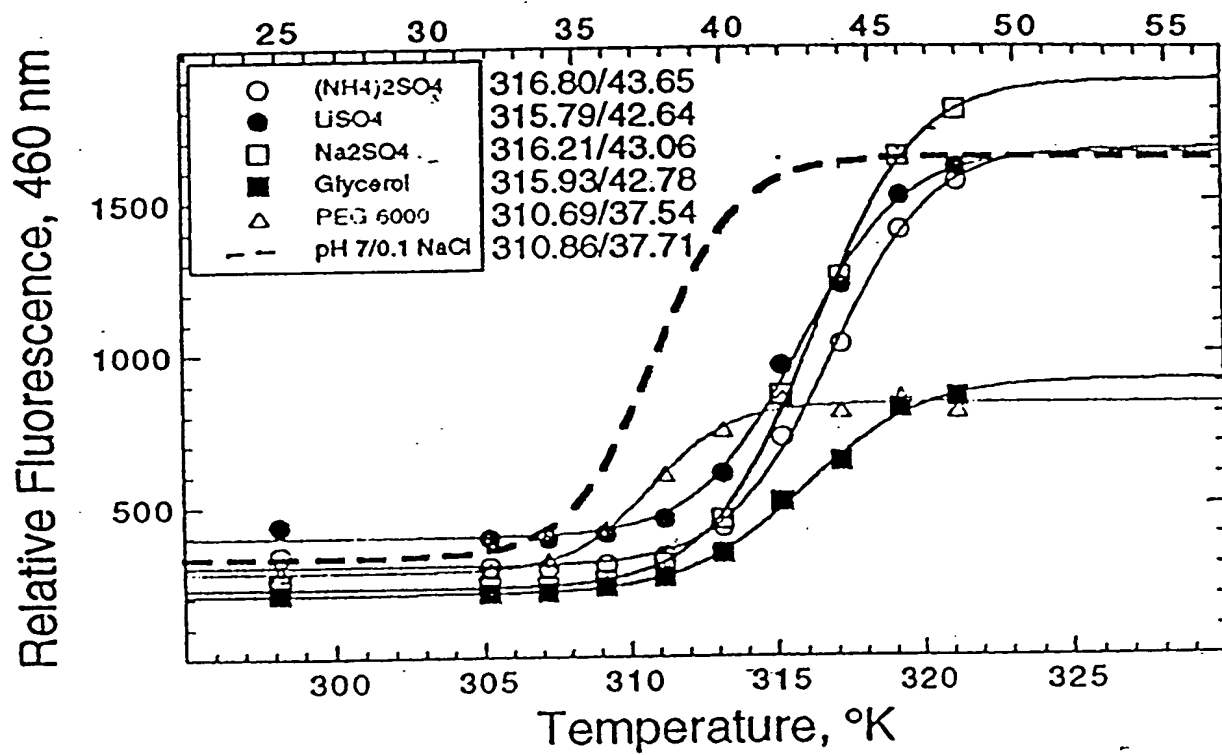


FIGURE 21



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FIGURE 22

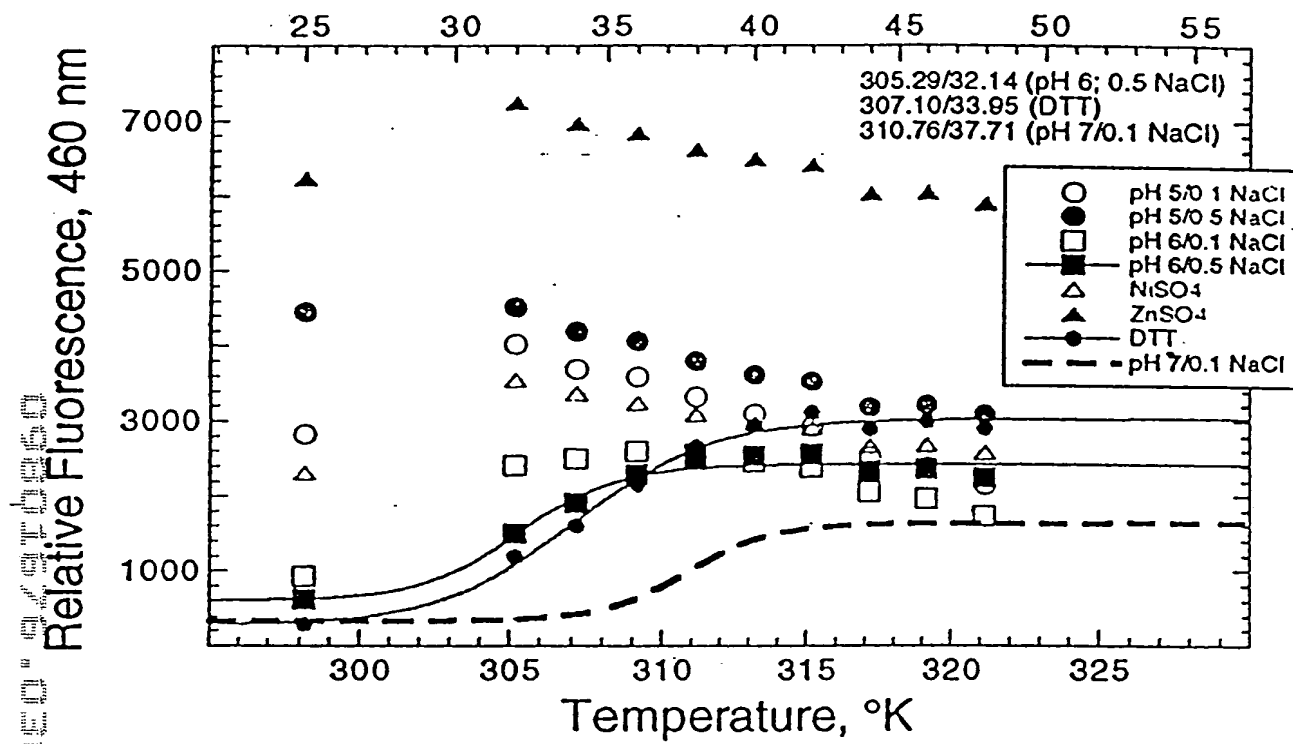


FIGURE 23

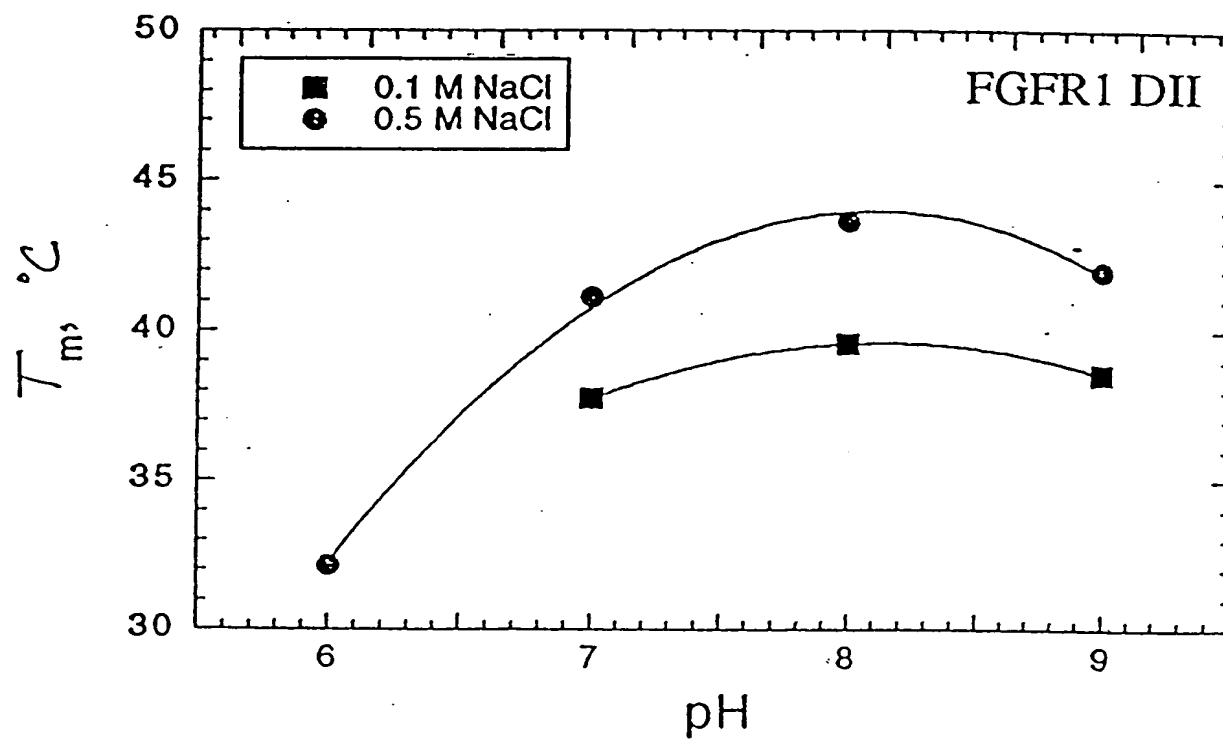
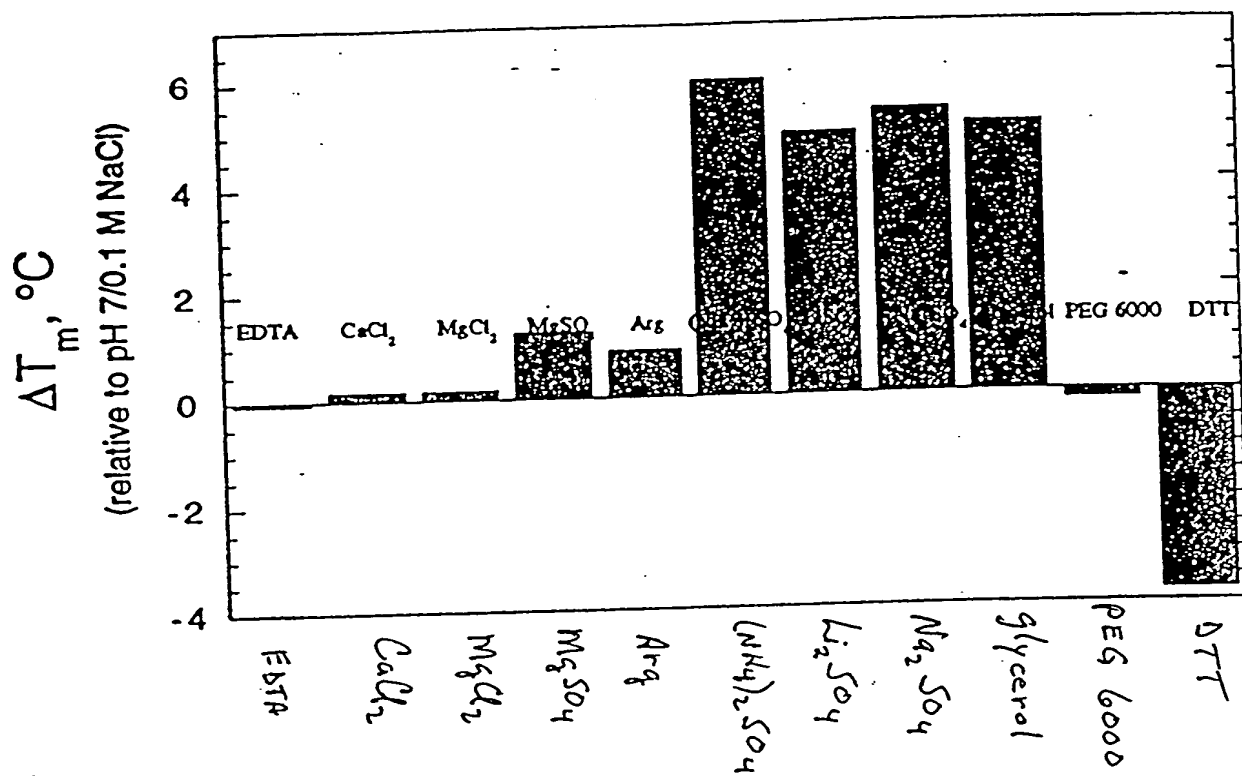


FIGURE 24

FGFR1 DII



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FIGURE 25

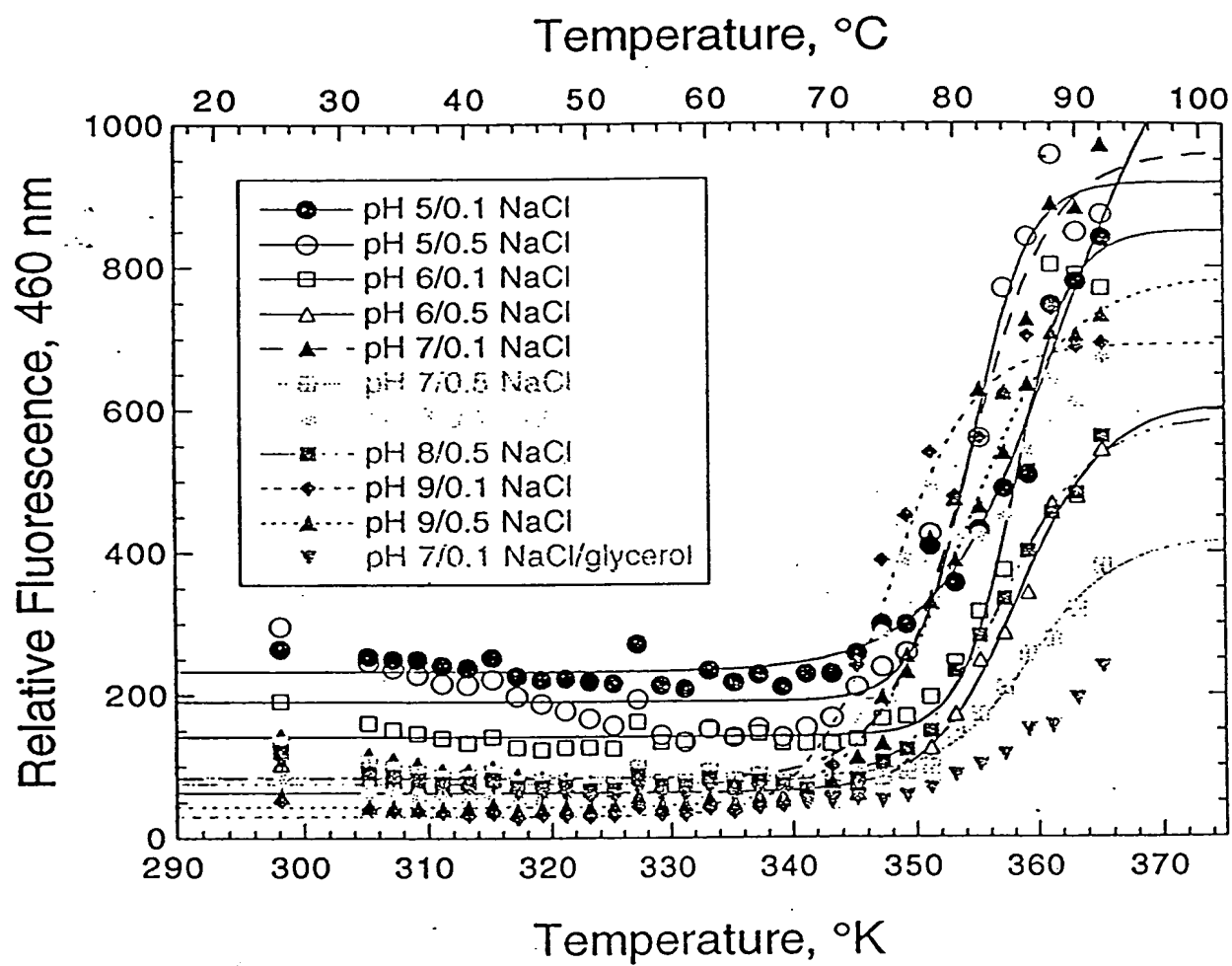
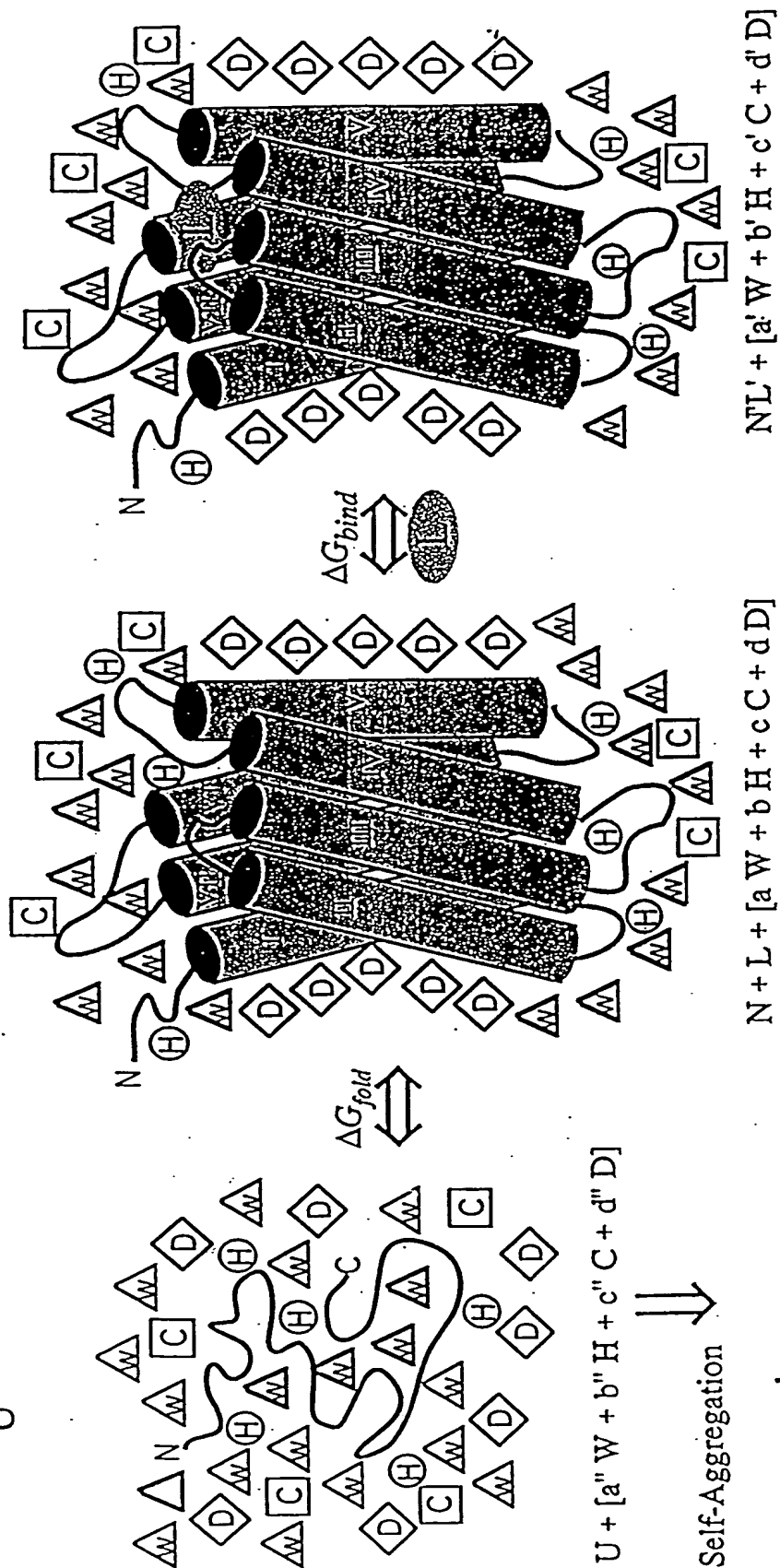


FIGURE 26

Unfolded State  $U$  Native State  $N$  Native-Ligand Complex  $N'L'$



$$\Delta G_{fold} = \Delta G_{conf} + \sum_i \Delta g_{i,int} + \sum_i \Delta g_{i,s} + \Delta W_{el} + (\Delta G_{bind})$$

Legend	
	= Water Molecules
	= Ionizable Protons
	= Counterions or Hofmeister Salts
	= Detergent or Lipid Molecules

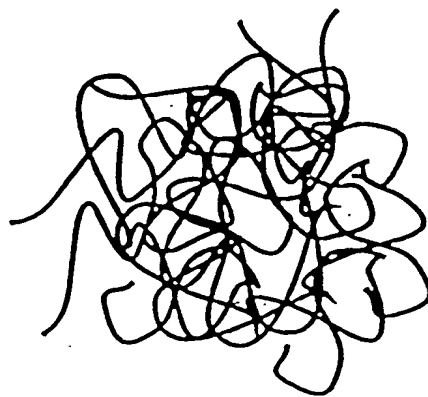


FIGURE 27

**Tagged Denatured Protein**

Denaturant: 6 M Gdn-HCl  
8 M Urea  
0.2% SDS

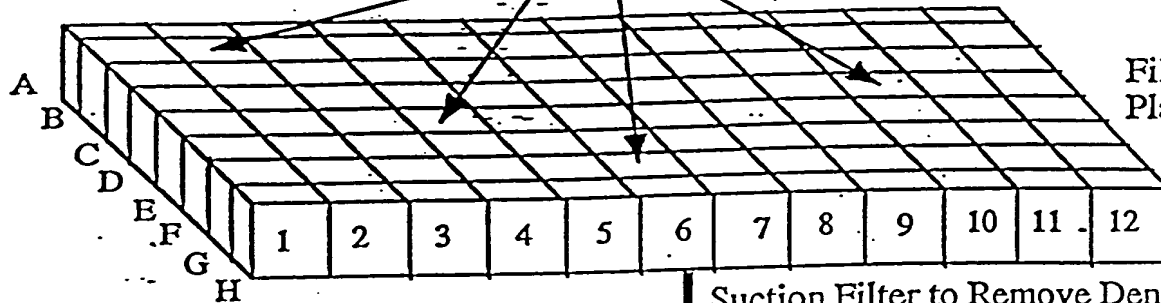
Reducing Agents: DTT, or  $\beta$ ME

H-H-H-H-H-H

R-R-R-R-R

Ni<sup>2+</sup> NTA Resin (Novagen)

or  
Heparin Sepharose  
(Pharmacia Biotech)

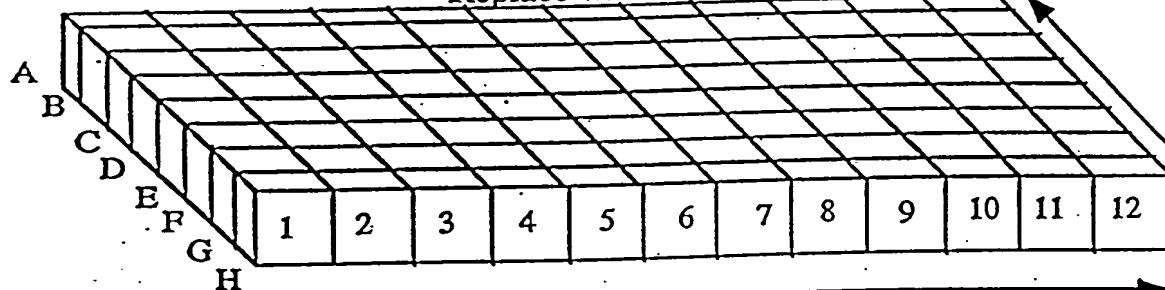


Filter Screen  
Plate (Millipore)

Suction Filter to Remove Denaturant

**Microplate Protein Folding**

Replace with *n*-Variable Refolding Conditions



Variable X (pH, Temp., Glycerol, Detergent, [Detergent],  
Glutathione Redox Buffer, ligand or cofactor, etc.)

*Thermal shift Assay*

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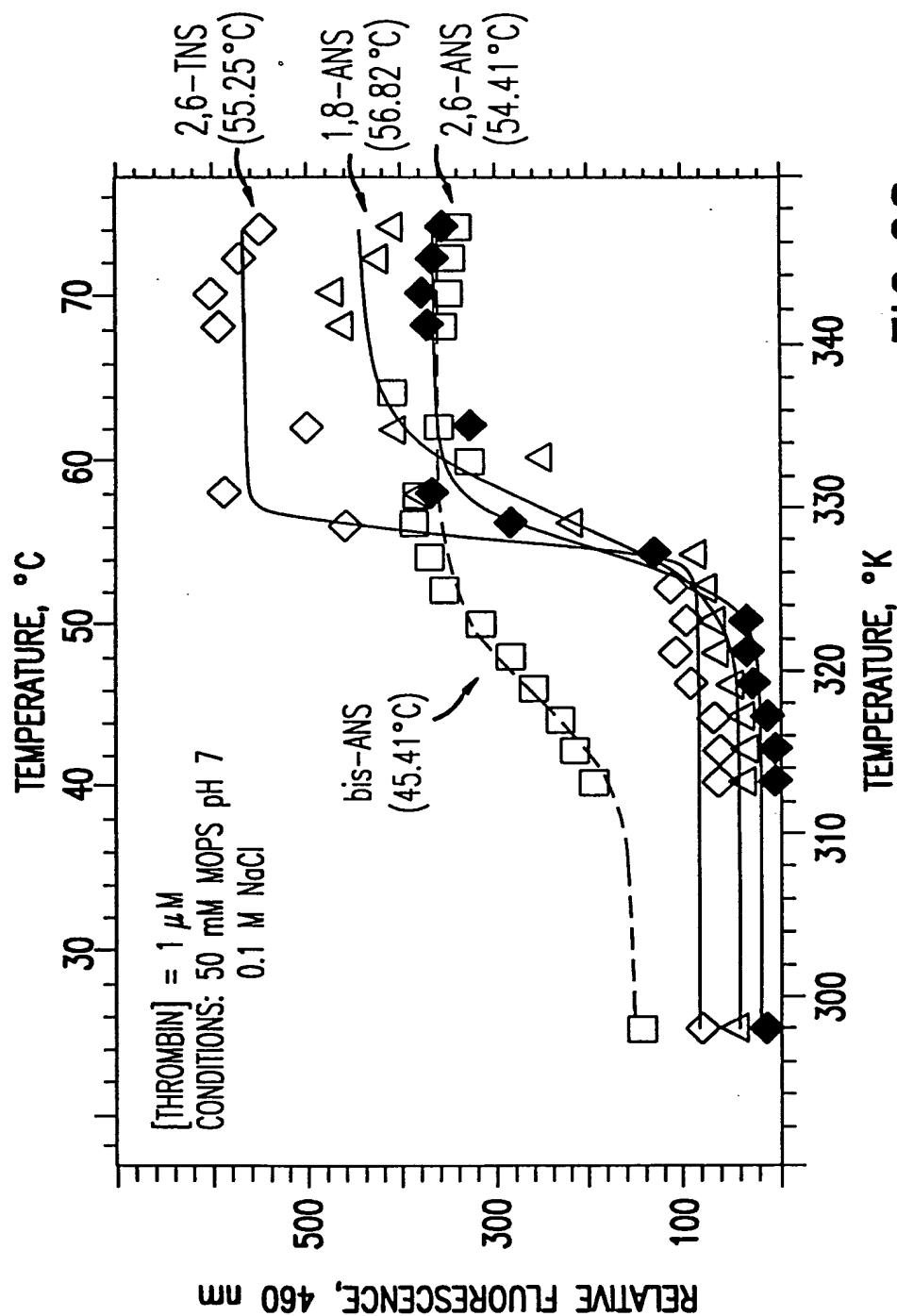


FIG.28

FIG. 29

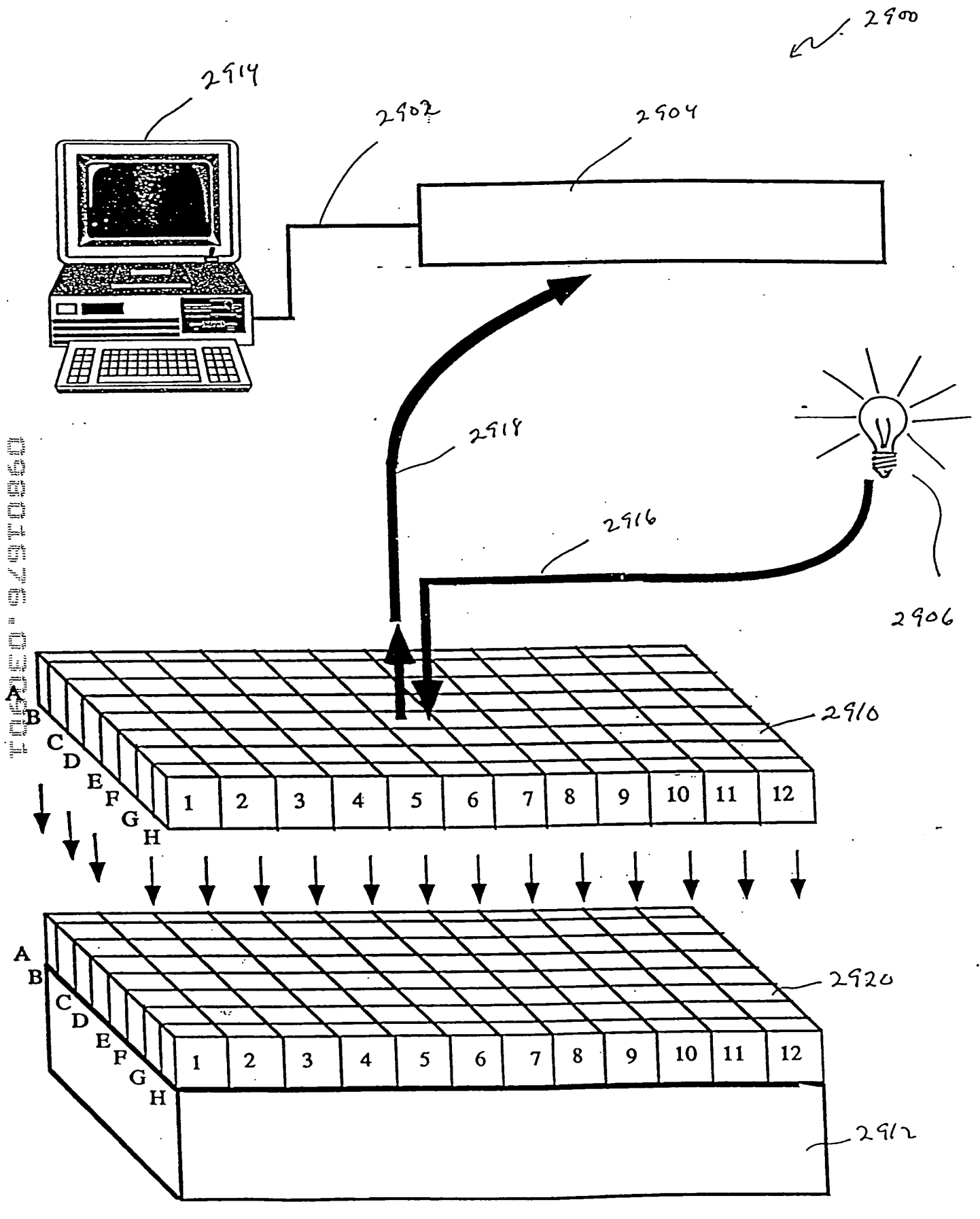




FIG. 31

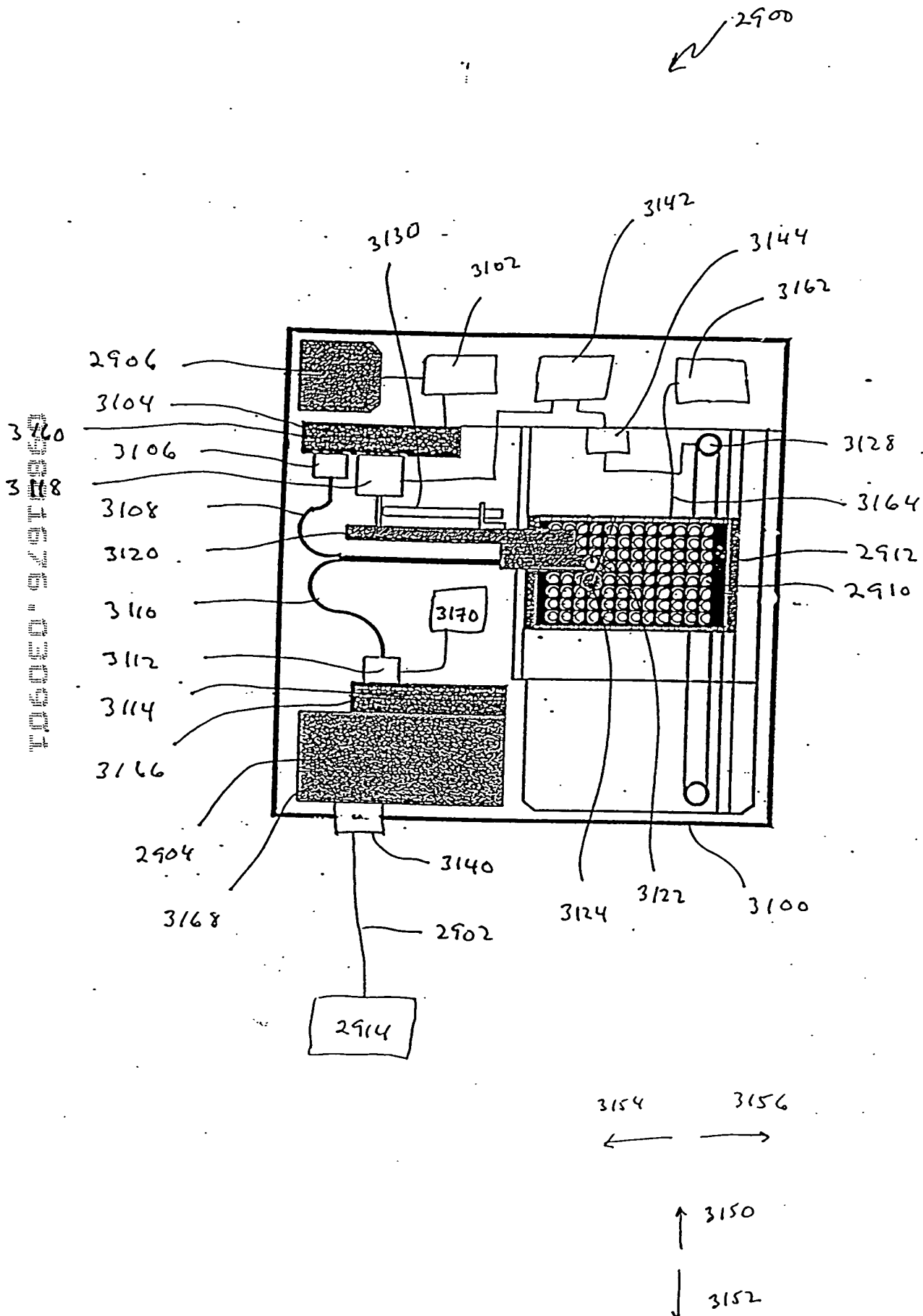


FIG. 32A

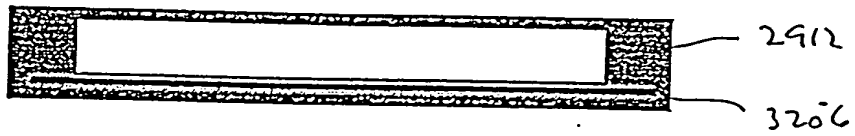


FIG. 32B

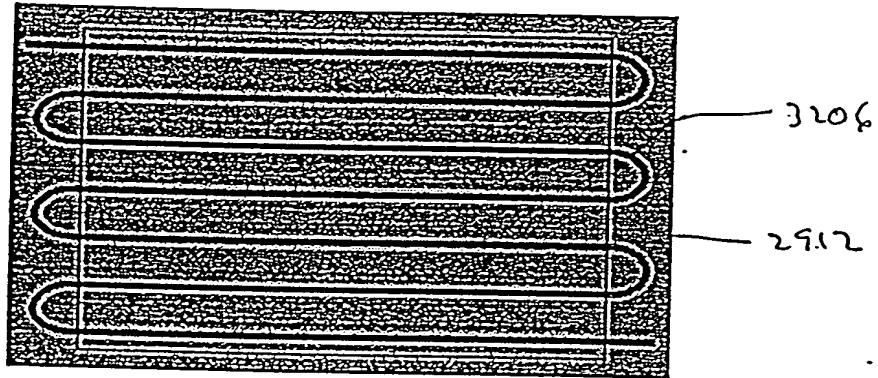


FIG. 32C



FIG. 32D



FIG. 32E

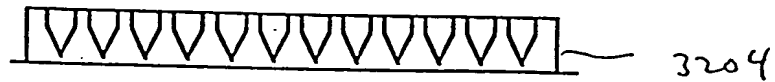




FIG. 33

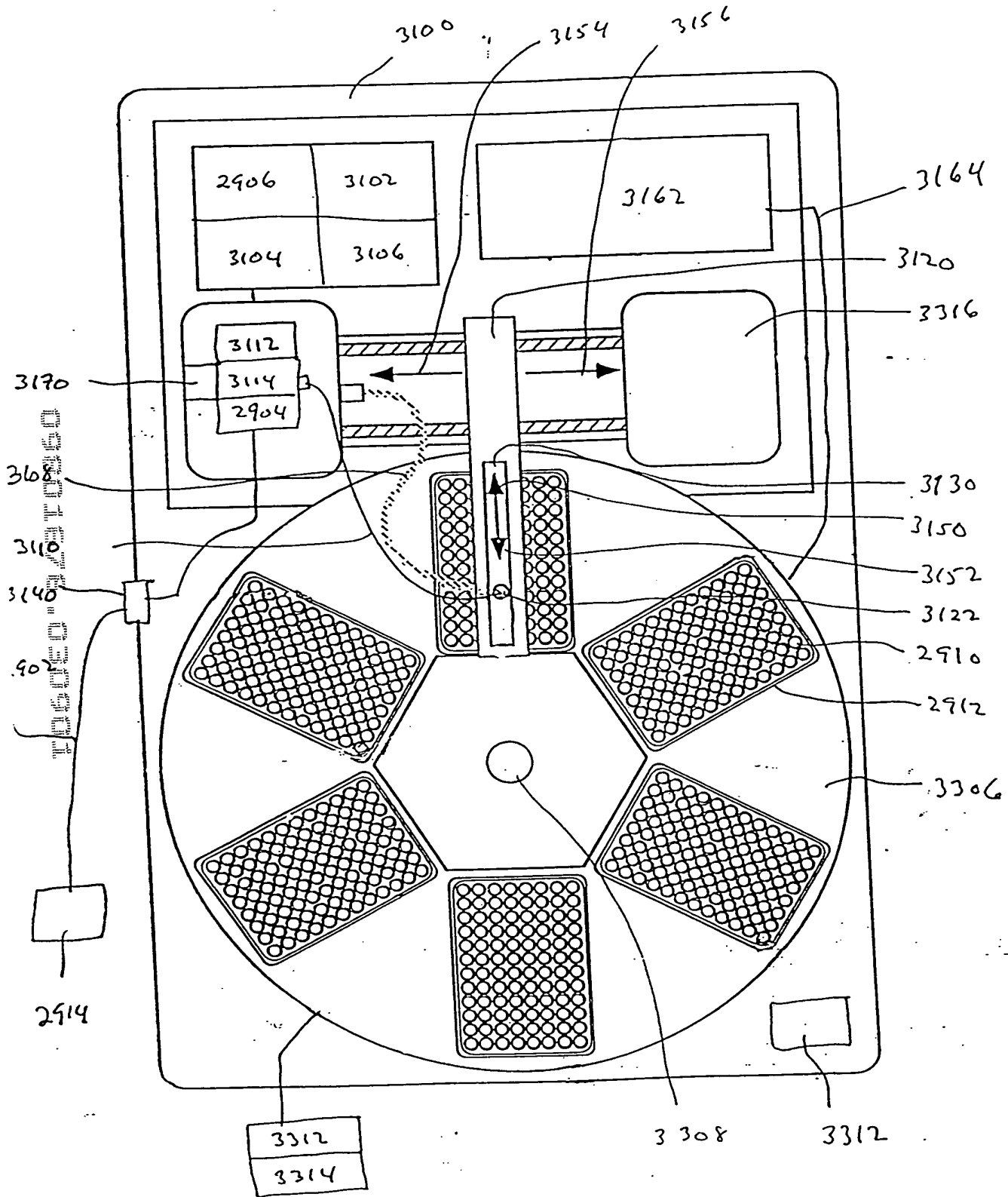
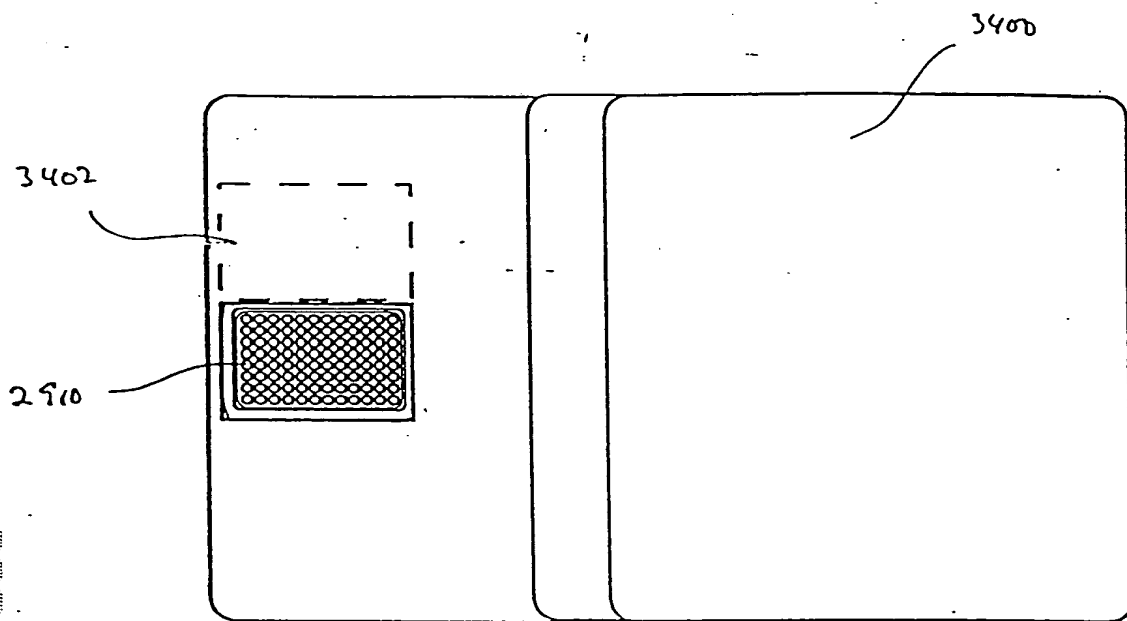
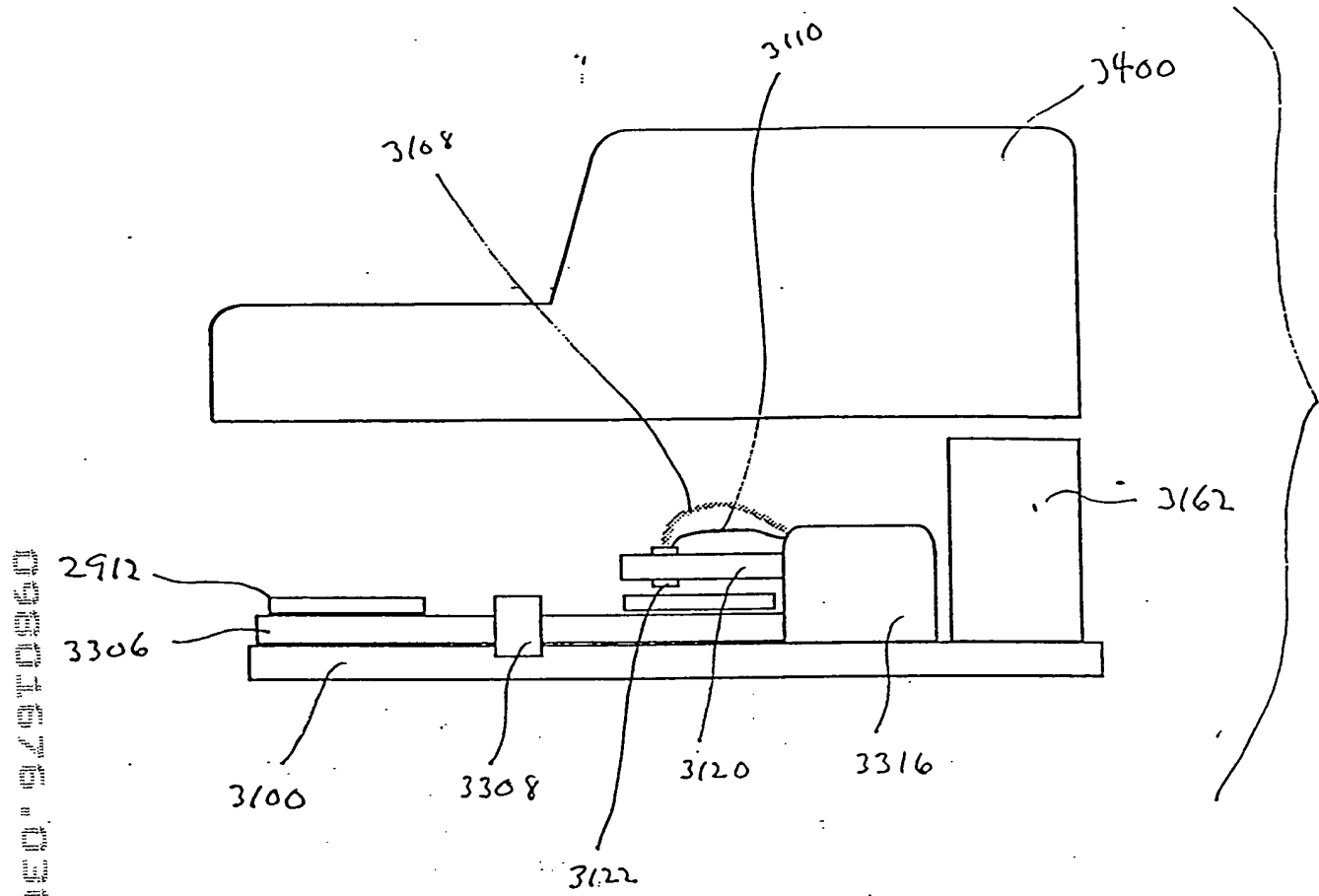


FIG. 34



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FIG. 35



00001676 000001

FIG. 36A

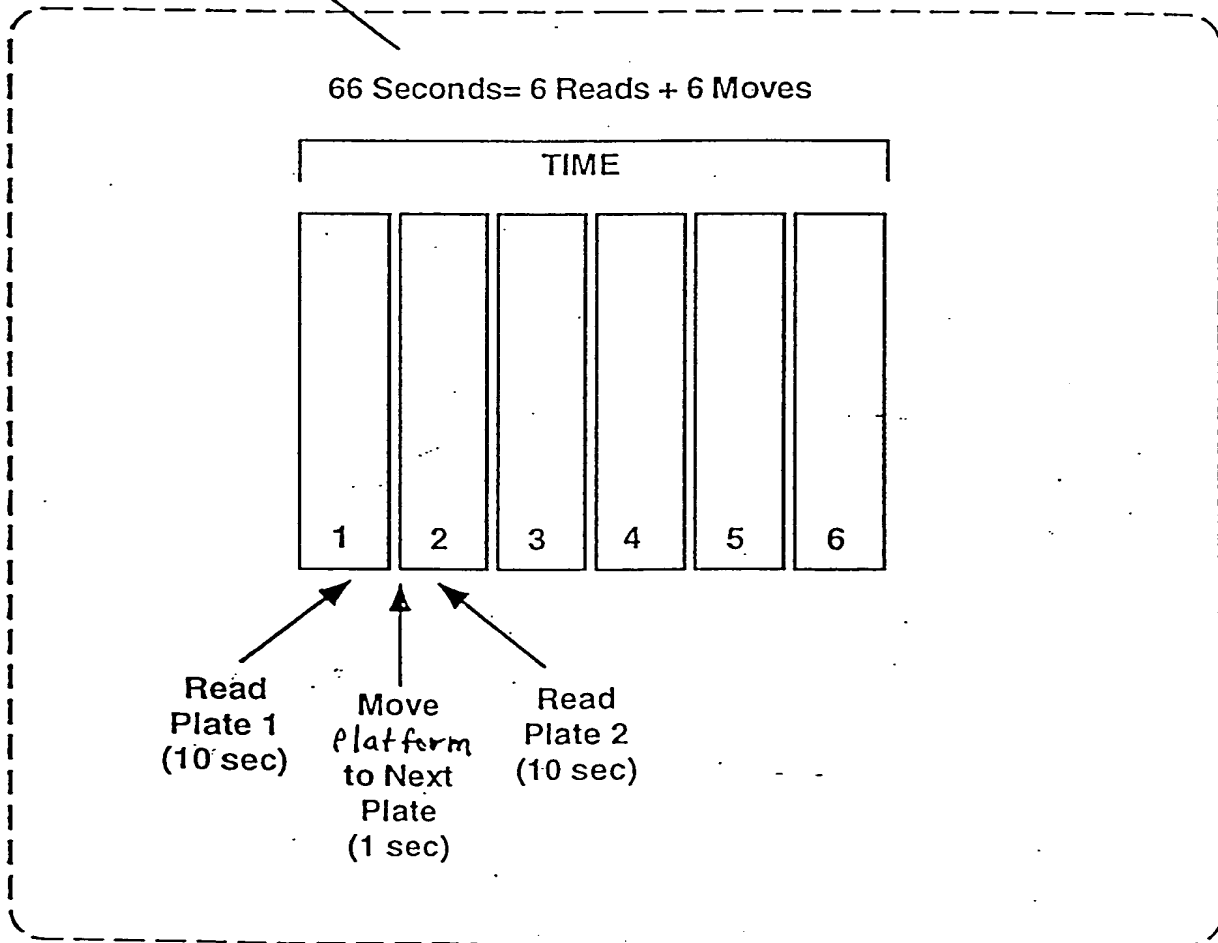
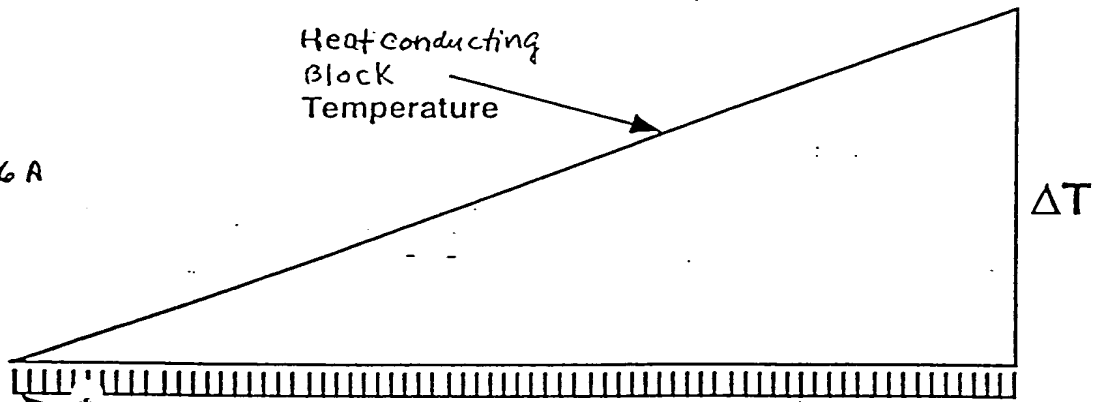
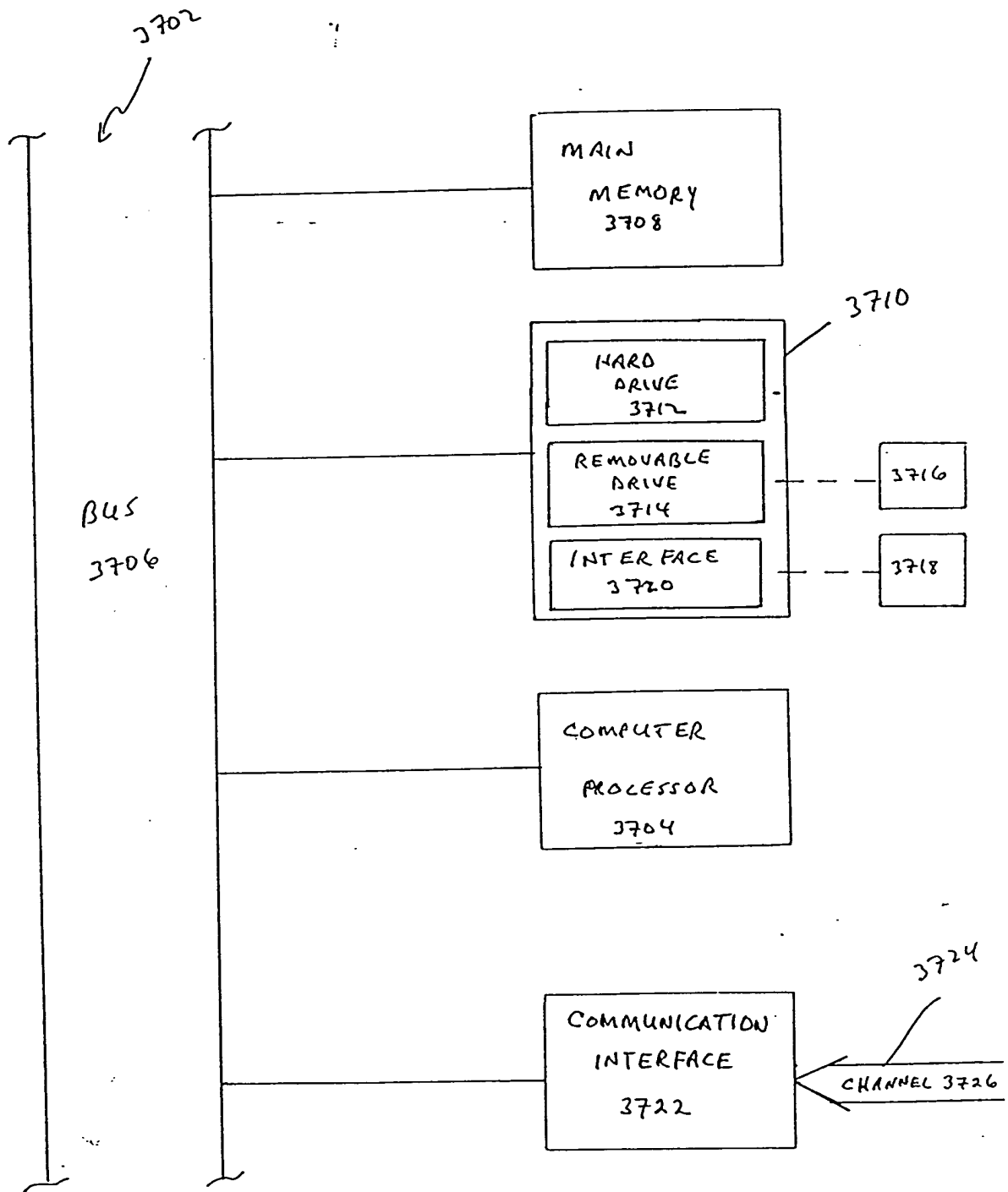


FIG. 36B

FIG. 37



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FIG. 38

3800

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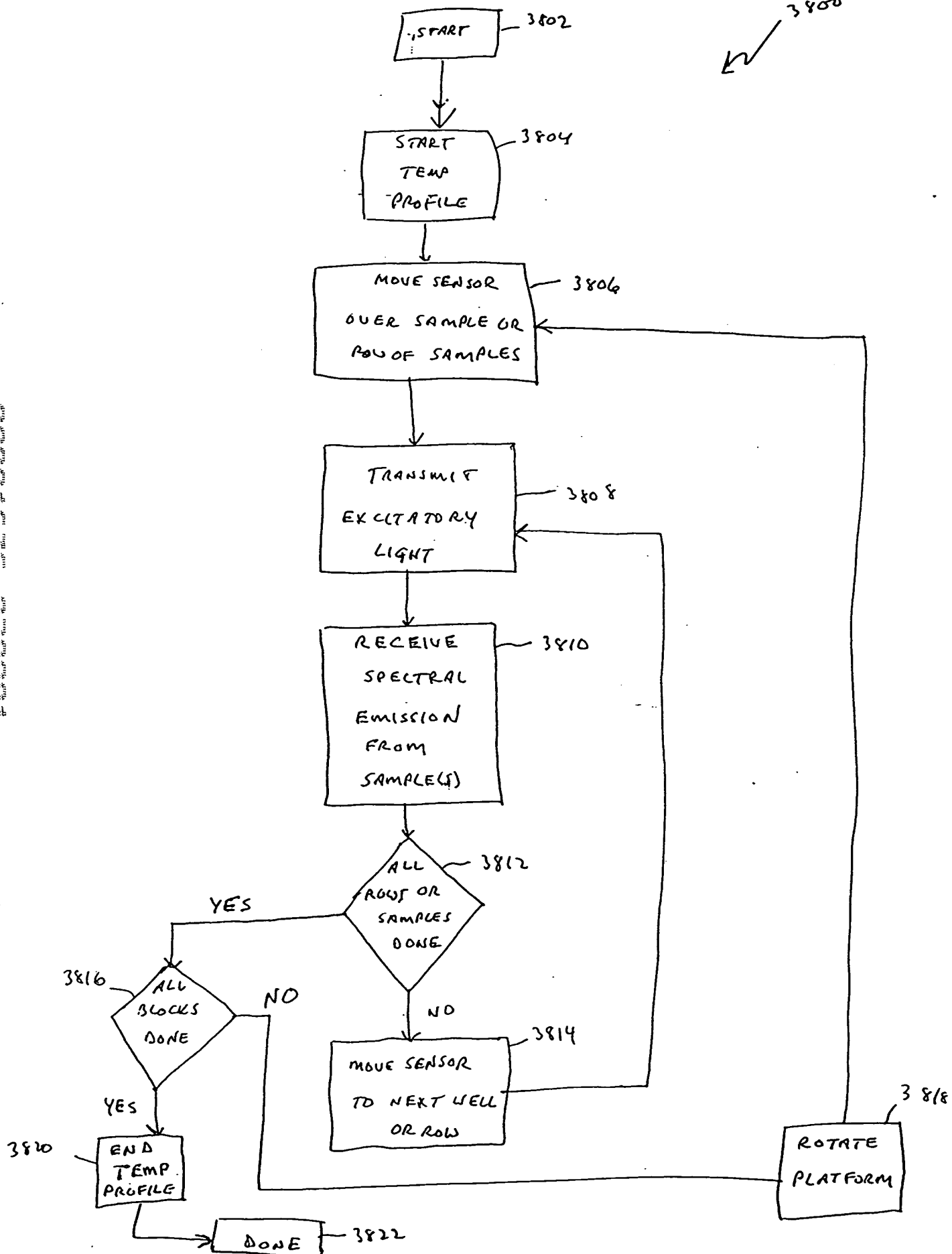
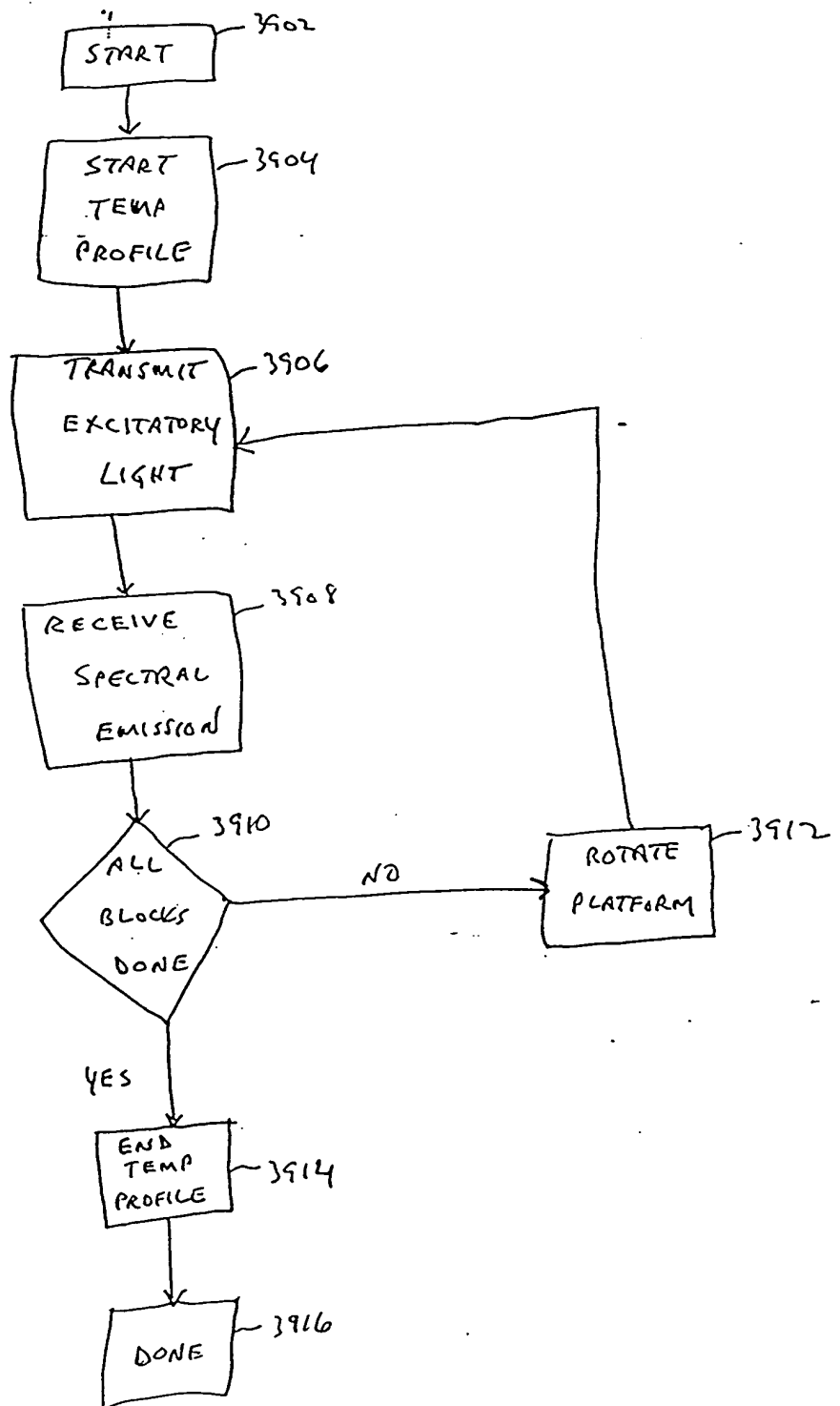


FIG. 39

3900  
↙



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FIGURE 40

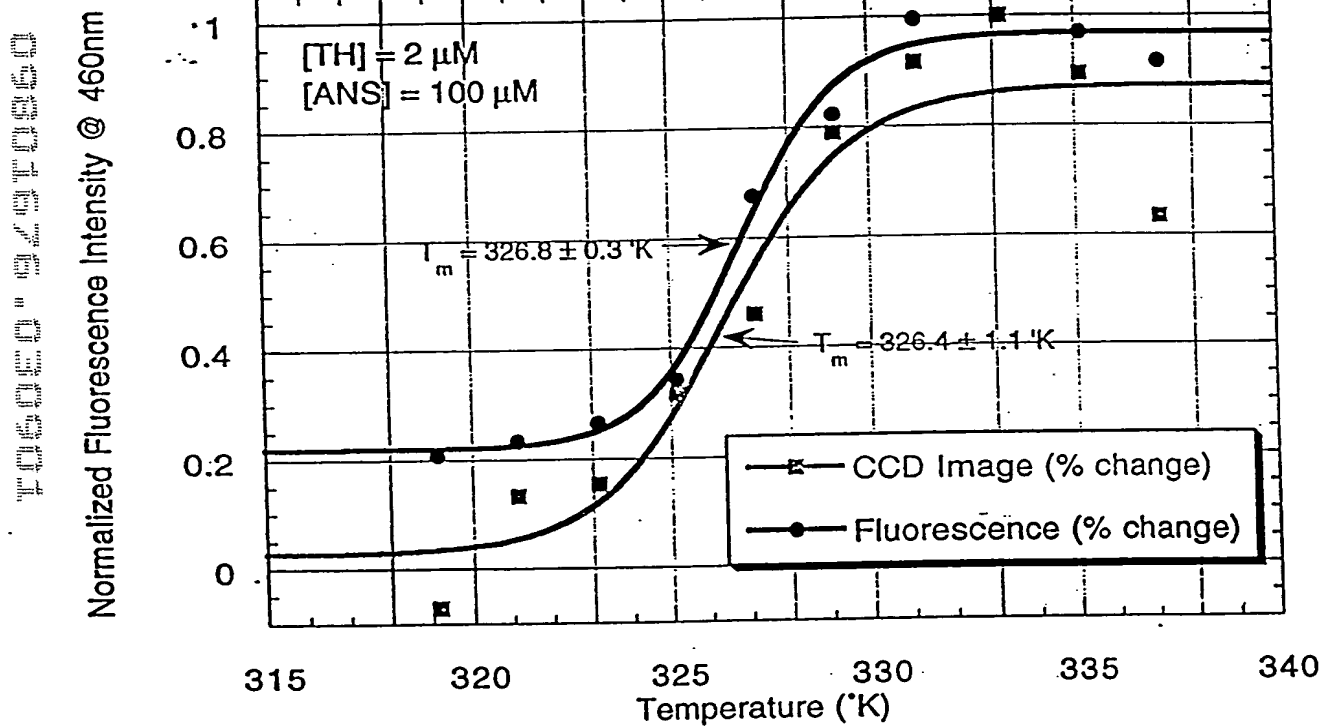
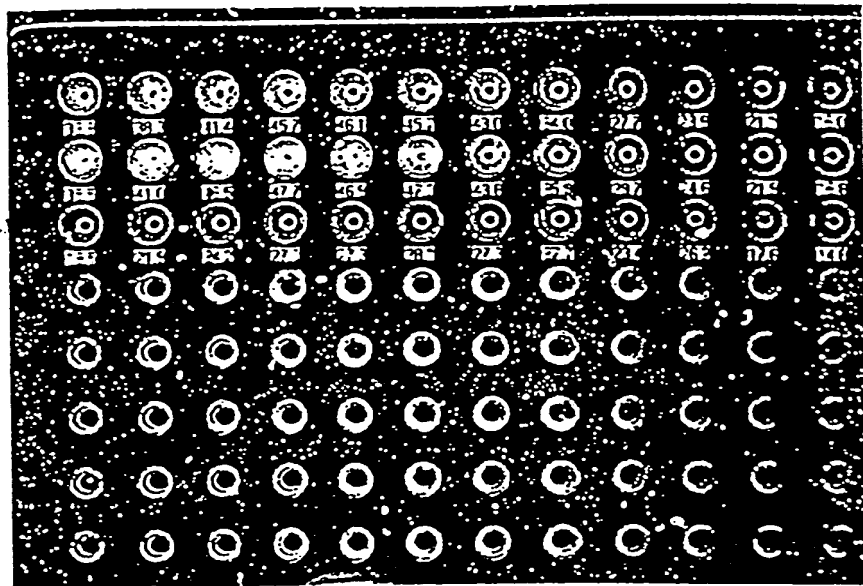




FIG. 41A

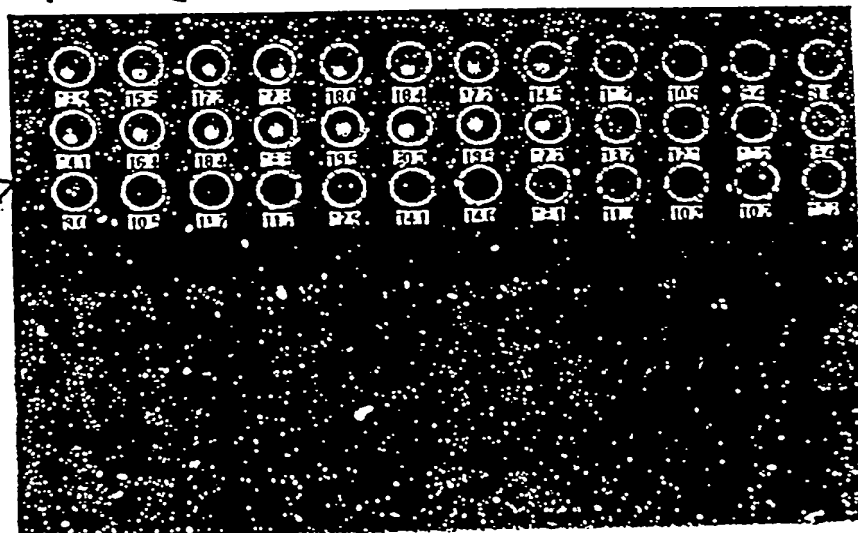
control →  
RNA/protein



66°C ← 44

FIG. 41B

control →



70°C ← 46

09801676.030901

FIGURE 42

